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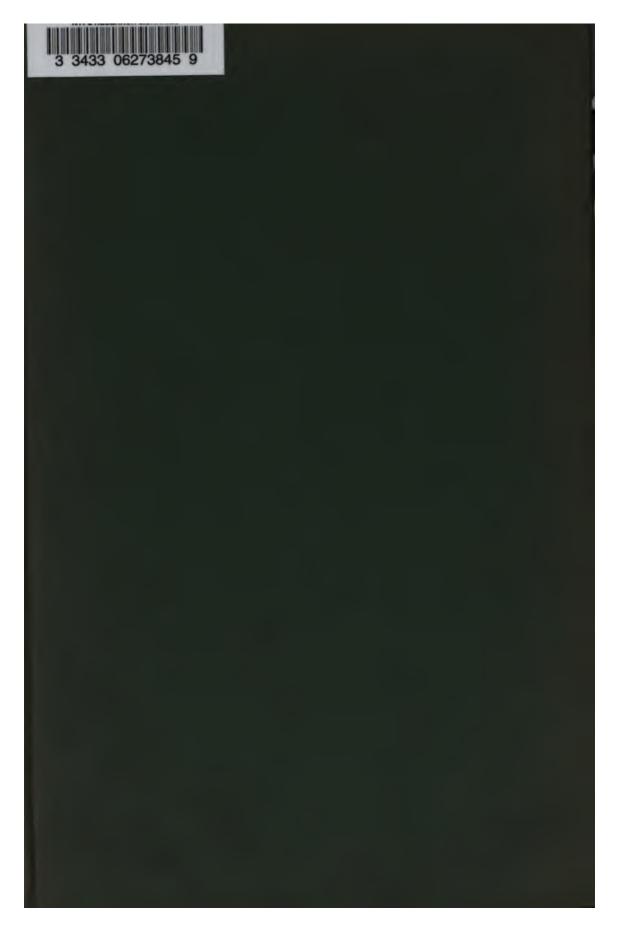
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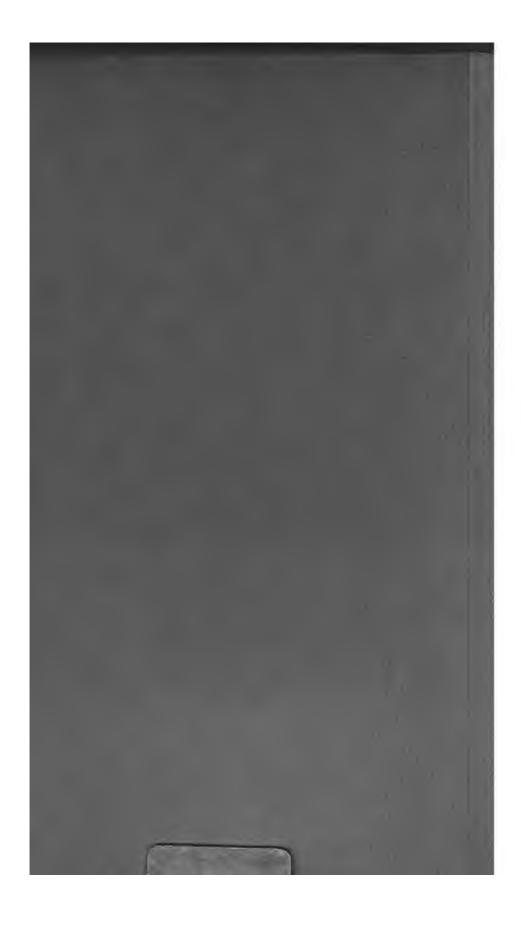
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#### SIXTEENTH ANNUAL REPORT

RELATING TO THE REGISTRY AND RETURN OF

## BIRTHS, MARRIAGES, AND DEATHS,

IN

MICHIGAN FOR THE YEAR 1882.

BY THE

## SECRETARY OF STATE,

OF THE

STATE OF MICHIGAN.



BY AUTHORITY

W. S. GEORGE & CO, STATE PRINTERS AND BINDERS. 1884.

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MICHIGAN,
DEPARTMENT OF STATE,
OFFICE OF THE SECRETARY,
Lansing, Nov., 1884.

HON. JOSIAH W. BEGOLE, Governor of Michigan:

SIR,—In compliance with the requirements of the laws of this State, I have the honor to submit herewith the Sixteenth Annual Report on Births, Marriages, and Deaths, returned for the year ending December 31, 1882.

The tables, exhibits, and diagrams in the present Report are similar to those of recent years. Some new features are introduced which it is thought will add to their interest and value. Special care has been taken in their preparation to secure the greatest attainable accuracy, which will afford gratification to those interested in this important subject. The necessity of thoroughness in our system of registration can hardly be overestimated. Any negligence or error in the original returns, made annually to this office, is carefully noted and correction secured by correspondence with the county clerks. The principal difficulties reported by the county clerks, relate to the delinquencies of clergymen in regard to making returns of marriages, and sometimes to the neglect of supervisors to comply with the law concerning the enumeration of births and deaths. Such cases are to be expected occasionally and they require correspondence and a rigid enforcement of the law. A copy of the laws and instructions concerning the solemnization of marriages, and the record, return, and compilation of births, marriages, and deaths, with such suggestions as seem necessary, has been prepared and is kept for distribution in this office. It will be immediately forwarded to those making application for the same.

It seems proper to state here that the present report was prepared and printed as soon as possible. Much of the delay is occasioned by the defect in the law itself, which provides that all information concerning births and deaths shall be obtained by the supervisors between the tenth day of April and the first day of June of the year succeeding that in which the events occurred. The returns are then forwarded to the clerks of the several counties and copied into record books for that purpose. The law then requires the county clerks to make certified copies of the records in their offices, and transmit the same to the Secretary of State by the first day of September. Although the law provides that the returns of births ,marriages, and deaths shall be at this office on or before the first day of September, they are never all

received before the last of October, and sometimes not before the second or third week in December. After the returns have been received it requires some time and labor to secure the correction of errors by correspondence. No one who is not conversant with statistical work has any idea of the labor necessary in the compilation of these tables, and after they are fully prepared considerable time is indispensable to make the accompanying deductions and observations. This explanation is deemed advisable in order that the seeming delay in publication may be better understood.

The natural increase of population in Michigan, or excess of births over deaths, during the year 1882, was 20,601, an increase of 5,090 over that for the year 1881. The number of births returned in this State in 1882 was 37,026, the number of marriages solemnized was 16,178, and the number of deaths returned was 16,425.

The tables in the present Report embrace nearly the same subjects as those of previous years, and are formed after the plans heretofore adopted as best calculated to offer a reliable basis for satisfactory study of the subjects here presented. Some of the tables, however, which have been published in previous Reports were omitted in the present volume.

Respectfully submitted,

Secretary of State.

### BIRTHS, MARRIAGES, AND DEATHS,

IN MICHIGAN,

DURING THE YEAR 1882.

The facts gathered by the supervisors and assessors in 1882, concerning the births, marriages, and deaths which occurred in Michigan during that year, are presented to the public in this volume. This is the sixteenth annual Report of the Secretary of State relating to the subject of the Vital Statistics

of Michigan.

It is our purpose to show, in the following tables and exhibits with their accompanying deductions and observations, in what essentials the statistics of 1882 correspond with those of former years, and also where they are at variance. It may be remarked that the statistics, in general, are satisfactory and present some encouraging features as compared with those of the previous years. While there are no very great contrasts to note, yet, in several direc-

tions, there are numerous improvements.

Exhibit A, on page 2, shows that during the year 1882, there were returned to the State Department 37,026 births, 16,178 marriages, and 16,425 deaths, the aggregate of this registry being 69,629, or 795 more than the total for 1881. It also shows the number of births, marriages, and deaths for each of the years 1877, 1878, 1879, 1880, and 1881, with the excess of births over deaths for each of those years. As compared with the year 1881, we find that the number of reported births is more by 2,277; the number of recorded marriages is more by 1,331; and the number of registered deaths is less by 2,813. The natural increase of population, or excess of births over deaths, is 20,601, a number more by 5,090 than the natural increase in 1881.

Making comparisons with other years, we find that the number of births and marriages as returned for the year 1882, is considerably in excess of those reported for previous years, while the number of deaths is less than in 1881, although more than for other years. The natural increase of population for the year 1882, is more than for any previous year with the exception of the

years 1876 and 1878.

EXHIBIT A.—Births, Marriages, and Deaths Returned as having occurred in Michigan during each of the Years 1877 to 1882, inclusive, including those in unknown month, as Returned, and as Corrected for Omissions in the Enumeration.

		1877.	1878.	1879.	1880.	1881.	1882.
	Marriages	11,844	12,829	13,816	14,660	14,847	16,178
As Returned.	Births	33,395	35,162	34,122	35,323	34,749	. 37,026
etu	Deaths	12,919	12,766	14,407	16,102	19,238	16,425
×	Excess of births over deaths	20,476	22,396	19,715	19,221	15,511	20,001
40.8	Births	50,203	52,145	50,100	50,643	49,800	49,813
As Corrected for Omissions.	Deaths	18,341	18 <b>,86</b> 6	20,583	26,256	27,387	27,306
on rect	Excess of births over deaths	31,862	33,279	29,517	24,387	22,413	22,507

<sup>.</sup> Corrected for additional returns up to Dec. 17, 1883.

EXHIBIT B .- Statements concerning Births, Marriages, and Deaths in Michigan during the Years 1877-1882, inclusive.

·	1977.4	1878.=	1879. a	1:1880.0	1881.¢	1882.
Inhabitants represented by returns of marriages to one marriages.  In population represented by marriages, males to one marriage.  In population represented by marriages, females	111.90 58.48	103,57 54.12	95.96 50.15	110.14 58.08	104.41 55.01	101.12 53. <del>2</del> 7
to one marriage	53.43 30.82	49.52 37.78	45.81 38.76	52.12 46.07	49.41 46.90	47.85 44.11
Inhabitants, males to each male child returned	40.88	38.09	38.90	46.61	47.82	44 85
Inhabitants, females to each female child returned	39.42	37.60	38.71	45.65	46.08	43.41
Inhabitants represented by deaths to one death	102.28	103.32	91.49	100.86	84.31	99.34
Inhabitants, males to one death of male	101.08	103.83	91.53	98.86	83.18	98.68
Inhabitants, females to one death of female	104.51	103.64	91.95	103.84	86.23	100.85
Deaths, males to 100 females	113.03	109.04	100.84	116.67	115.19	113.69
Births, males to 100 females	106.94	108.02	108.83	108.79	107.13	107.83
Total population of State, males to 100 females	109.47	109.47	109.47	111.33	111.33	111.33
Births to one death	2.58	2.75	2.37	2.19	1.81	2.25
Births, males to one death of male	2.52	2.75	2.36	2.13	1.75	2,20
Births, females to one death of female	2.67	2.77	2 38	2.28	1.88	2.32
not stated	59.00	67.00	48.00	62.00	61,00	60.00
stated	52.00	52.00	37.00	47.00	65.00	48.00
natural daily increase of population as per births and deaths returned	56 10	61.35	54.01	52.52	42,49	56.44
sions in the enumeration	87.29	91.17	80,95	66.63	61.41	61.66

a In computing statements for this column, the inhabitants in 1874 were used.
b Marriages corrected for additional returns up to December 17, 1883.
c In computing statements for this column, the inhabitants June 1, 1880, were used.

In Exhibit B may be studied many important relations between births, marriages, deaths, and inhabitants during each of the years 1877-1882. In the computations for the years 1877, 1878, and 1879, the population in 1874 was used, and in the statements for the years 1880, 1881, and 1882, the population of the State according to the U. S. Census of 1880, was used. In the intervals between the census enumerations we are compelled to make our calculations upon the last census returns, which necessarily involves a certain amount of error. The probable increase in the population must, therefore, be considered when the estimates are compared with those of previous years. It is evident that, from year to year, the population does not pursue a uniform rate of increase, but until there is a better means of determining the fluctuation, the equal annual rate of increase is the most reliable method.

The average annual rate of increase in the population during the period from 1870 to 1880 was 3.291 per cent. Using this as the rate of increase for the present period, the estimated population of Michigan for the year 1882 would be 1,746,453; an increase of 109,516 over the actual population in 1880.

Table I. contains data concerning the number of births, marriages, and deaths in Michigan for certain specified periods of time during the year 1882. Here may be seen the average number per quarter, per month, per week, and per day, and also the natural increase of population, or excess of births over deaths, for each of those periods of time. According to the returns, there were 101 births, 44 marriages, and 45 deaths per day in this State in 1882. When the returns of births and deaths are corrected for omissions in the enumeration, there were 136 births, and 74 deaths per day.

From Exhibit B it may be seen that one child was born to every 44 persons of the population, that one marriage was solemnized to every 101 persons, and that one death occurred to every 99 persons. The rates of births, mar-

riages, and deaths to 1,000 of population were as follows:

Births22.67	to 1,000 of	f population
Marriages 9.89		**
Deaths10.07	**	**

It should be borne in mind that the above figures are obtained from the population of the State in 1880.

The excess of the birth-rate over the death-rate is 12.6 per thousand, an

increase of 3.22 over that for 1881.

With such an increased birth-rate, and such a diminished death-rate, the year was favorable to public health.

TABLE I .- The number of Marriages, Births, Deaths, and Excess of Births over Deaths in the State of Michigan during the Year 1882, and the Average Number and Excess during Specified Periods of Time within the Year as Returned, and the same for Births and Deaths as Corrected for Omissions in the Enumeration.

	PERIODS OF TIME,—1882.	Marriages, 1882.	Births, 1882.	Deaths, 1882	Excess of Births over Deaths.	
	Year 18624	16,178.00	37,026.00	16,425.00	20,601.0	
rd.	Quarter	4,044.50	9,256.50	4,106.25	5,150.2	
urn	Month	1,849.17	3,085,50	1,368.75	1,716.70	
orrected.b Returned.	Week	311.12	712.04	315.87	396.1	
	Day	44,32	101.44	45.00	56.4	
	Year, 1882b		49,813.00	27,306.00	22,507.0	
red.	Quarter		12,453.25	6,826.50	5,626.7	
rred	Month		4,151.08	2,275.50	1,875.58	
00	Week		957.94	525.12	432.83	
-	Day		136.47	74.81	61.6	

The design of Exhibit 1 is to show the number of births, and deaths registered in Michigan; also the natural increase of population, or excess of births over deaths, by months, during the years 1877-1882. It also shows in the last line the monthly averages of excess for the nine years 1874-1882. It will be observed that the average excess for the nine years is less by \$37 than the excess for the year 1882. Thus it is seen that the year 1882 is better than an average one as regards the natural increase of population. The month of December has the largest average excess of births over deaths, and the month of February the smallest. In 1882, the month of February also has the least excess, while the month of August shows the largest excess.

Some of the relations between births, marriages, and deaths may be studied in Exhibit 2, on page 6. The births, as equalized and as corrected for omissions, are shown, by months, for the year 1882, and the marriages and the deaths, as equalized and as corrected for omissions, are shown for the months in which the births in 1882 were probably conceived-nine months prior to birth. The plus and minus signs indicate, respectively, that the number under it is greater or less, as the case may be, than the monthly average for that

line, as shown in the last column.

EXHIBIT 1.—By Months, the Births, Deaths, and Excess of Births over Deaths, according to the Rolurns, in Michigan

		E						MONTHS	SIL					
		IOTAL.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oet.	Nov.	Dec.
	Births	33,324	2,212	2,246	2,690	2,655	2,683	2,657	2,899	3,997	3,048	3,015	2,847	3,145
1877	1877 Deaths	12,963	200	843	900	878	976	873	1,040	1,559	1,400	1,221	1,060	1,155
	Excess of births	30,461	3,446	1,403	1,700	1,677	1,707	1,782	1,859	1,668	1,648	1,794	1,787	1,990
	Births	35, 130	2,201	2,411	2,836	2,937	2,805	767,2	2,835	3,295	3,260	3,266	3,061	3,42
1878	Deaths	12,742	730	789	930	1,029	923	870	1,017	1,371	1,343	1,196	1,181	1,36
	Excess of births	22,388	1,471	1,625	1,906	1,908	1,882	1,927	1,818	1,924	1,917	2,076	1,880	9,00
	Births	34,002	2,420	2,331	9,758	2,706	2,842	2,626	3,018	3,198	3,149	3,036	2,766	3,23
1879	1879 Deaths	14,366	903	992	1,114	1,174	1,083	905	1,183	1,537	1,403	1,286	1,268	1,52
	Excess of births	367,61	1,526	1,339	1,644	1,532	1,759	1,724	1,835	1,661	1,746	1,750	1,498	1,712
	Births	35,287	2,355	2,513	2,830	2,824	2,880	2,773	3,011	3,285	3,278	3,173	3,068	3,278
1890	1830	16,069	860	1,002	1,149	1,289	1,166	1,036	1,527	1,780	1,676	1,471	1,486	1,61
	Excess of births	19,228	1,495	1,511	1,701	1,535	1,714	1,736	1,484	1,505	1,602	1,702	1,582	1,66
	Births	34,719	2,393	2,432	2,835	2,805	2,887	2,712	3,027	3,313	3,204	8,078	2,854	3,17
1881	1881	19,172	1,065	1,078	1,815	1,427	1,457	1,276	1,701	2,246	2,301	1,941	1,617	1,748
	Excess of births	15,547	1,338	1,354	1,590	1,578	1,430	1,436	1,326	1,067	903	1,137	1,237	1,43
	Births	36,985	2,486	2,536	3,004	3,039	3,031	2,733	3,100	3,521	3,444	3,379	3,215	3,47
1882	Deaths	16,347	978	1,171	1,372	1,311	1,480	1,264	1,284	1,453	1,545	1,498	1,421	1,570
	Excess of births	. 20,638	1,508	1,365	1,632	1,748	1,551	1,469	1,816	2,068	1,899	1,881	1,794	1,90
Monthlyav	Monthly averages of excess for 1874 to 1882, inclusive	19,801	1.411	1.406	1.643	1.699	1.684	1 709	1.745	1 070	1,090	1 733	1 000	1.83

· Unknown month excluded.

It may be interesting to note that the larger number of births in the months of August and September of the year 1882 seems to be coincident with the larger number of marriages solemnized in the months of November and December of the year 1881.

Using births as returned and equalized by months as the data, propositions

may be made as follows:

- (1.) More than the average number of conceptions occurred in months in which more than the average number of marriages were solemnized, and less than the average number in months when less than the average number of marriages were solemnized.
- (2.) Less than the average number of conceptions occurred in months in which more than the average number of deaths occurred, and more than an average number of conceptions in months in which less than the average number of deaths occurred.

To each of the above propositions there are six exceptions shown in Exhibit 2.

EXHIBIT 2.—Births Returned as having occurred in Michigan by Months, during the Year 1882, and Marriages and Deaths during Months of Conceptions of the Births,—all Months Equalized to Uniform length of 30.44 days.

							Mon	TH5,-	-1882.					
	Total.a	Jan.	Feb.	Mar.	Apr.	May.	nne.	July.	Aug.	Sept.	Oct,	Nov.	Dec,	Av. Month.
Births, 1882, equal-( ized to months of uniform length (	36,991	2,441	2,757	- 2,950	+	- 2,976	2,773	3,044	+ 3,457	+ 3,495	+ 3,318	+ 3,262	3,415	3,08
Births, 1882, correct- ed for omissions in enumerating, and equalized to months of uniform length.	49,814	3,768	+ 4,162	+ 4,352	+ 4,475	+ 4,189	3,809	4,077	+ 4,514	+ 4,443	4,106	3,926	3,993	4,15
					Mon	гнв,—1	188 L					1882.		
		Apr.	May.	June.	July,	Aug.	Sept.	Oct.	Nov.	Γoc.	Jan,	Feb	Mar.	Av. Month.
Marriages, equal- ized to months of uniform length	15,807	1,159	- 1,167	1,142	_+ 1,254	1,068	1,423	1,623	+ 1,678	+ 1,661	1,218	1,234	1,180	1,31
Deaths, equalized ( to months of uni- form length	19,228	1,448	1,431	1,295	+ 1,670	+ 2,205	+ 2,335	± 1,906	+ 1,641	+ 1, 16	961	1,273	   –   1,347	1,60
Deaths, corrected for omissions in enumerating, and equalized to months of uniform length.	28,624	2,258	2,169	1,90%	+ 2,380	# 8,060	+ 3.138	± 2,490	2,065	2,087	1.966	+ 2,522	+ 2,582	2,38
Deaths, corrected and equalized, equalized to months of uniform length	29,268	2,329	2,230	- 1,954	2,430	+ 3,114	3.183	+ 3 2,507	2,079	2,093	2,048	+ 2.620	2,672	2,43

a Excluding unknown month.
b Corrected for additional returns up to Dec. 17, 1883.

The natural increase of the population of Michigan, or the excess of births over deaths by nativity, may be seen in Exhibit D. The statistics here show that the birth-rate is much larger and the death-rate much less among the foreign than among the native-born population of this State. Taking the average for the past ten years, the natural increase was about twice as great among the foreign-born as among the native-born. This is largely due to the fact that the foreign-born are nearly all at the reproductive middle ages. and hence the death-rate is small compared with that of children and those of old age.

EXHIBIT D.—Grouping the Evidence of the Vital Statistics on the subject of the Comparative Natural Increase of Native and of Foreign-born Inhabitants of Michigan, by Excess of Births over Deaths, according to the Returns, the Evidence Exhibited Covering the Years 1875 to 1882, inclusive.

	1	1875.	2 1		1876.		1000	1877.		1	1878.	
DIRTHS, DEATHS, AND EXCESS OF BIRTHS OVER DEATHS.	Total.	Both Parents of Children Native of U.S. A. Deaths of Native-born.	Both Parents of Children Foreign-horn. Deaths of Foreign-born.	Total.	Both Parents of Children Native of U. S. A. Deaths of Native-born.	Both Parents of Children Foreign-born. Deaths of Foreign-born.	Total.	Both Parents of Children Native of U. S. A. Deaths of Native born.	Both Parents of Children Foreign-born. Deaths of Foreign-born.	Total.	Both Parents of Children Native of U. S. A. Deaths of Native-born.	Both Parents of Children Foreign-born. Deaths of
Births by parent nativity Deaths, by nativ- ity Excess of births over deaths	* 31,958 * 11,990 19,968			* 34,235 b 12,576 21,659	15,551 0 10,147 5,404		a 33,395 b 12,919 20,476	15,270 e 10,305 4,965	100000	a 35,162 b 12,766 22,396	16,323 e 10,183 6,140	11,995 4 2,237 9,756
		1879.	-	1	1880.			1881.			1882.	
BIRTHS, DEATHS, AND EXCESS OF BIRTHS OVER DEATHS.	Total.	Both Parents of Children Native of U.S. A. Deaths of Native-born,	Both Parents of Children Foreign-born. Deaths of Foreign-born.	Total.	Both Parents of Children Native of U. S. A. Deaths of Native-born.	Both Parents of Children Foreign-born, Deaths of Foreign-born,	Total.	Both Parents of Children Native of U.S. A. Deaths of Native-born.	Both Parents of Children Foreign-born. Deaths of Foreign-born.	Total.	Both Parents of Children Native of U.S.A. Deaths of Native-born.	Both Parents of Children Foreign-born. Deaths of Foreign-born.
Births, by parent nativity Deaths, by nativ-	* 34,122	15,864	11,369	1	16,274		a 34,749	15,907	11,560	a 37,026	16,169	13,173
Excess of births over deaths	19,715	¢ 11,495 4,369	4.2,458 8,911	19,221	a 12,572 3,702	-	15,511	c 15,402 505	8,153	ъ 16,425 20,601	c 12,848 3,321	10,020

<sup>.</sup> Includes children of mixed parentage, and those where the nativity of one or both parents was

unknown.

b Includes deaths of persons of unknown nativity.

e Includes all deaths of persons born in the United States, whether born of native or foreignborn parents.

d Includes only persons who were born in foreign countries.

TABLE II.—Exhibiting, by Sex, the Population in 1880, the Number of Marriages, Births, and Deaths, and the Excess of

	Bir	Births over	Deaths, in Michigan during the	in Mic	higan e	luring		Year 1882, according to the Returns.	82, a	cordin	g to th	s Relu	rns.	•	•	•
STATE	Popt	POPULATION, 1880.	,08			BIRTUS, 1882.	3, 1882.			DEATHS, 1882.	3, 1882.		EXCRSS	OF BIRTH	EXCESS OF BIRTHS OVER DEATHS.A	EATHS.A.
AND	1	S Sı	SEX.	Marriagee, 1882.			SEX.		į		SEX.				SEX.	
COUNTIES.	Total.	Males.	Females.		rotal.	Males.	Fe- males.	Un- known.	Total.	Males.	Fe- males.	Un- known.	I OURI.	Malcs.	Fe. males.	Un- known.
STATE	1,636,937	862,355	774,582	16,178	37,028	19,179	17,787	8	16,425	8,713	7,664	48	20,601	10,466	10,123	77
Alcona	3,107	1,945	1,163	81	п	2	7		6	4	5		8	9	63	
Allegan	37,815	19,732	18,083	397	Ħ	38	410	61	**	<b>8</b> 8	195	-	392	173	215	1
Alpena	8,789	5,161	3,628	113	352	100	182	1	87	47	æ	-	205	123	143	
Autrim	5,237	2,867	2,370	æ	146	92	5		22	3	*	_	33	g	8	-1
Baraga	1,804	1,036	768	엄	8	8	8		17	ឌ	81		83	۲-	97	
Barry.	25,317	13,284	12,033	190	430	215	215		181	86	· 88		240	117	132	
Вау	38,081	21,008	16,983	88	1,510	818	769		203	278	23	:	1,007	94	467	
Benzie	3,433	1,862	1,571	31	108	6	25		z	37	11		6	2	33	
Berrien	36,785	18,805	17,980	246	799	362	297	0	88	381	345	9	: ::	<u>8</u>	132	-1
Branch	27,941	14,240	13,701	321	907	217	183		202	901	101		193	=======================================	88	
Calhoun	38,452	19,599	18,853	341	179	308	362		504	88	53	-	307	181	127	7
Cass	22,000	11,350	10,639	180	378	381	196		163	88	92		215	ક્ષ	130	
Charlevoix	5,115	2,743	2,372	2	187	ğ	8	က	ಡೆ	<b>\$</b>	21	-	93	ಜ	ล	61
Cheboygan	6,524	3,760	2,764	8	SZ SZ	116	116		8,	\$	8		3	7.	88	
Chlppewa	5,248	2,906	2,342	67	126	8	8		88	47	ន		97	16	ຂ	
Clare	4,187	2,793	1,394	8	101	8	<b>‡</b>	က	7	30	ន	7	8	8	ន	61
Clinton	2H, 100	14,657	13,443	201	443	224	219	i	191	91	8	-	262	138	951	7
Craw ford	1,159	6843	476	71		×	_ ea	-	22	=	7	_	88		22	#

•	:			1	-								e1		-	!		:	-			:		1	
:23	107	71	183	7	ន	163	8	8	623	174	101	3	76	i	215	134	11	305	101	38	187	82	83	જી	7
28	167	æ	2	n	8	751	137	316	272	149	151	92	101		021	78	77	419	8	18	187	33	121	8	*
2	\$12	44	327	==	8	317	<b>8</b>	<b>3</b>	531	316	265	136	800		98	212	31	811	188	3	374	116	251	169	-
	-								Ī			i			-	-	:	1	i	i	-	1	-	-	
-83	113	3	166	-	23	92	127	107	8	152	158	æ	2		151	162	21	374	8	61	110	13	861	8	6
-স	88	7	571	ю	2	8	90	343	8	127	162	×	3		008	175	ន	434	29	18	134	88	203	\$	6
25	202	8	341	*	#	160	88	200	98	249	083	28	382		326	88	\$	606	101	37	245	8	104	178	22
:				-	i								61		61	-		-	-		-		:	61	
#	617	38	361	20	28	823	Si Si	68	319	286	833	82	161		970	988	28	766	143	1.7	168	11	8	165	9
ತ	256	Z	24	<b>x</b>	22	244	977	83	298	200	316	100	100		370	203	8	33	145	33	331	<b>3</b> 5	334	8	21
141	476	142	89	11	107	283	<b>3</b>	82	681	5865	<b>34</b>	101	335		743	220	12	1,620	88	0)I	619	165	652	347	93
8	246	55	976	9	88	213	413	818	114	313	275	11	8	-	798	297	왏	276	æ	37	227	ŝ.	205	175	ន
3,640	15,153	3,005	19,178	878	3,814	10,249	16,179	10,231	9,375	16,277	15,898	9,776	5,557	*	90,198	16,999	1,320	35,230	1,874	1,292	14,311	2,865	24,062	10,631	1,213
4,17	16,072	3,544	20,042	740	4,608	11,687	16,544	12,242	10,714	17,399	17,974	4,097	6,602	31	21,833	17,943	1,617	38,014	2,396	1,941	15,827	3,388	24,281	11,620	1,689
0,812	31,225	6,639	30,220	1,127	8,423	21,036	32,723	22,473	30,089	33,676	33,872	6,873	12,159	23	42,031	34,342	2,937	73,253	4,270	3,233	30,138	6,253	48,343	22,251	2,902
Dolta	Eaton	Emmet	Goneseo	& Gladwin	Grand Traverse	Gratiot	Hillsdale	Houghton	Huron	Ingham	Ionia	I08c0	Isabella	Isle Royal	Jackson	Kalamazoo	Kalkaska	Kent	Keweenaw	Lako	Lapoer	Leelanaw	Lenawee	Livingston	Mackinac

. The figures with the minus sign placed before them indicate the excess of deaths over births.

TABLE II.-CONTINUED.

	Popt	OPULATION, 1880.	.880			Birtes, 1882.	, 1882.			DEATES, 1862.	8, 1862.		Excres	OF BIRTH	IS OVER ]	Excess of Births over Deaths.a
COUNTIES.		S <sub>1</sub>	Srx.	Marriagos,			SEX.				SEX.				SEX.	
	Total.	Males.	Females.		Total.	Males.	Fe- malcs.	Un- known.	Total.	Males.	Fc. males.	Un- known.	Total.	Males.	Fe. males.	Un- known.
Macomb	31,627	16,157	15,470	248	88	320	355		736	25	145		808	198	300	
Manisteo	12,532	6,969	5,563	136	3	蒸	33,	-	310	됈	8	-	gg	101	162	
Maniton	1,334	812	616	-	8	33	ដ		=	•	m		11	1-	92	. !
Marquette	25,394	14,760	10,634	315	1,014	513	96	n	617	82	771	n	8	276	319	
Mason	10,065	5,630	4,406	111	ş	8	켥	e1	8	8	17	-	83	83	ន	-
Mecosta	13,973	7,620	6,347	193	:3	218	187		183	119	74		213	8	113	
Menominec	11,987	8,000	3,987	88	ន	123	81	n	8	3	4,	-	191	Ħ	<u></u>	G1
Midland	6,803	3,780	3,113	જ	135	ŧ	11		87	17	3	-	8	ន	8	7
Missaukec	1,333	<u>2</u>	611	23	æ	. 13	ę	က	ૠ	88	11	•	8	G	21	
Monroe	33,634	17,250	16,374	340	176	727	352		ğ	152	130		174	273	8	:
Montcalm	33,148	18,331	14,827	346	633	324	307	-	278	154	123	Ç1	38	0,1	32	7
Montmorency b				co.	23	a	4		84	61			==	1-	*	
Muskegon	36,386	14,784	11,802	370	<b>2</b>	##	££3	-	82	182	156		25	<b>39</b>	287	
Newaygo	14,688	8,376	6,312	881	887	145	345		131	8	99		137	88	#	
Oakland	41,537	21,327	20,210	300	570	50 50 50 50 50 50 50 50 50 50 50 50 50 5	275	e	341	174	166	1	83	25	8	61
Осеява	11,699	6,444	5,235	106	282	137	971		137	33	12	-	146	22	ន	7
Ogemaw	1,914	1,168	746	23	S	ឌ	22		ĸ	17	15		81	9	21	
Ontonagon	2,565	1,333	1,230	11	92	97	8		98	21	33		<b>Ş</b>	ន	Ħ	:
Osceola	10,777	6,015	4,762	35	311	170	141		107	8	2	i	ĝ	111	87	-
Oscoda	199	291	176	9	2	9	œ		~	ro	*		7	•	7	•
Otsego	1,974	1,137	23.	ន	#	ផ	ត		Ŀ	=	•		15	<b>2</b>	==	_;

Ottawa	33, 128	17,472	15,654	373	<b>3</b> 8	\$	23	9	367	8	38	-	186 -	#	273	?1 
Presque Isle	3,113	1,701	1,412	33	143	<b>æ</b>	28		8	a	22		202	z	<b></b>	
Roscommon	1,439	1,006	200	•••	*	11	a	i	ø	•	••		11	11	•	
Saginaw	39,085	31,903	27,293	<b>7</b> 9	1,613	833	757	-	878	11.7	998	10	<b>3</b> 2	878	<b>19</b>	7
Sanilac	26,341	14,023	12,818	201	740	<b>Q</b>	95	•	283	113	86		547	188	8	:
Schoolcraft	1,575	1,007	814	10	\$	ន	ន	-	8	25	ล		20	-	**	7
Shiawasseo	27,069	14,948	12,811	197	83	615	202	-	160	8	92	-	<b>38</b>	136	24	
St. Clair	46, 197	23,922	22,275	<b>2</b>	200	<b>Ş</b>	\$	21	\$	213	191	7	202	247	荔	-
St. Joseph	36,626	13,516	13,110	338	473	95	233		232	136	136		뙲	114	100	:
Tuscola	25,738	13,644	12,004	23.	710	301	of ह	:	ŝ	33	120		<b>458</b>	ĝ	81	:
van Buren	30,807	15,737	13,050	287	13	73	230	1	ភ្លឺ	103	102		112	152	118	-
Washtenaw	41,848	21,250	20,538	ž	90 25	900	200	e1	83	28	253	-	27.	105	141	-
Wayne	106,444	82,917	83,527	1,576	5,009	2,703	2,394	61	2. 2.	1,294	1,158	61	2,645	1,400	1,236	
Wexford	6,815	3,903	2,913	<b>8</b> 6 .	240	116	721		æ	\$	8		997	2	<b>8</b> 8	

The figures with the minus sign placed; before them indicate the excess of deaths over births.
 The population of Montmorency county was complied with Alpena county.

EXHIBIT E.—Showing, for the State and Counties of Michigan, the Number of Births and Deaths returned to this Department as having occurred out of Michigan during the Years 1881-2. (Presumably in Families Residing in Michigan.)

STATE	18	81.	18	82.	CONTENT DO	18	81.	18	82.
COUNTIES.	Births.	Deaths.	Births.	Deaths.	COUNTIES.	Births.	Deaths.	Births.	Deaths.
STATE	375	129	366	132	Lake	3	1	5	
Allegan	17	3	5	2	Lapeer	4	3	10	3
Alpena	1		1		Leelanaw	1	<b></b>	2	
Antrim	6		8	1	Lenawee	12	4	9	3
Baraga			1		Livingston		1	1	2
Barry	5	1	6	2	Macomb	1			1
Bay	10	3	19	2	Manistee	1		7	1
Benzle		1		ļ	Marquette	15	6	1	
Berrien	10	1	23	6	Mason	6	1	1	
Branch	2	5	8	9	Mecosta	6	1	4	
Calhoun	4	3	6	1	Midland	1			1
Cass	5	2	3	4	Missaukee		1		1
Charlevoix	6		2		Monroe		7		5
Cheboygan	1				Montcalm	3	2	7	
Clare			1		Muskegon	13	4	11	5
Clinton	2			2	Newaygo	1		3	
Crawford			1		Oakland	2	2	4	
Eaton	5	2	4	3	Oceana	4			
Emmet			2		Ogemaw	1			
Genesee	8	3	4	3	Osceola	10	2	3	1
Grand Traverse.	2		2		Ottawa	9	3	11	3
Gratiot	1		4		Presque Isle	1		1	
Houghton	5		6		Saginaw	•••••		38	8
Huron	3	2			Saniiac	9	6	16	3
Ingham	3	2	2		Shiawasseo	3		10	2
Ionia	5	6	5	2	St. Clair	8	6	5	2
Tosco	8	1	6		St. Joseph	3	5	14	2
Isabelia	´ 5	2	8	1	Tuscola			2	2
Jackson	12	3	4	2	Van Buren	5	3	2	5
Kalamazoo		1	8	4	Washtenaw	7	2	11	1
Kalkaska	1	•••••	2	1	Wayne	103	19	22	. 25
Kent	11	9	16	6	Wexford	3		9	5
Keweenaw	1								

#### BIRTHS, 1882.

The whole number of births, returned as having occurred in Michigan during the year 1882, was 37,026. This number is greater than ever before, 2,277 greater than in the year 1881, and much greater than the average for the past fifteen years. The annual average number of births returned for the fifteen years 1868–1882 is 31,633, which is 5,393 less than the number reported for the year 1882. The increase of births should follow the increase of population with a certain degree of regularity.

The following tabular exhibit shows, according to our estimations, what per cent of births has been returned and also what per cent has been added as a correction for the omissions in the enumeration. In 1882, 74.31 per cent of the births were returned, while the average for the ten years 1873–1882 was only 69.25 per cent.

YEARS.	Per Cent of Births Returned.	Per Cent of Births Added as Correction for Omissions.
1873	76.72	30.34
1874	55.73	79.37
1875	68.61	45.76
1876	75.73	32.04
1877	66.47	50.44
1878	67.41	48.34
1879	68.05	46.91
1880	69.73	43.42
1881	69.76	43.35
1882	74,31	34.57
Av. for 10 years	69.25	45.45

The law by which the returns of births and deaths are made in the cities and towns is a defective one, and in all probability the number reported is less than it should be. The law provides that the facts concerning births and deaths shall be ascertained by the supervisors and assessors by house to house visitations which are made once during the year. In this way a certain num-

ber of births and deaths undoubtedly escape registration. Another source of error is the delay in collecting these statistics, which is made from five to sixteen months after the births and deaths occur, during which time removals and other causes may lead the enumerator to miss many returns which might be obtained under a more perfect system of registration.

It is well to remember the strong probability that the whole number of births returned is less than the whole number which actually occurred, and in consequence of which a correction has been made that amounts in 1882 to 34.57

per cent. of the births returned.

The census returns of 1880 are the only trustworthy basis on which to make the computations of the present work. The increase in population has, no doubt, been considerable, and this should be considered when comparisons are made with previous years. It should be remembered, however, that as the calculations are made on the same basis of population, the relative conclusions for the present year are reliable.

The total population of the State in 1880, according to the U. S. census, was 1,636,937. Subtracting from this 3,585, being the number of inhabitants from whom no returns of births were received during the year 1882, we have 1,633,352, the number of inhabitants in 1880 represented by the returns

of births in 1882, as may be seen in the tabular exhibit below.

The birth-rate for 1882 was 2.27 for every one hundred persons, or 22.70 for every one thousand persons of the population. Including the still-born (792), a child was born to every 44 persons. When the returns of births are corrected for omissions in the enumeration, the birth-rate was 3.04 for every hundred of the inhabitants, or 30.40 for every thousand.

	Inhabitants		Births Corrected	PER CENT	
SEX.	in 1880 Represented by Births in 1882.	Births as Returned.	for Omissions in Enumer- ating.	Births as Returned.	Births Corrected for Omissions,
Total	1,633,352	37,026	49,680	2.27	3.04
Males	860,179 773,173	19,179	26,087 23,593	2.23	3.03 3.05
Unknown		60			

The number of births per quarter, per month, per week, and per day, during the year 1882 may be seen in the following tabular exhibit:

PERIODS OF TIME.	Births as Returned.	Corrected as per Exhibit A, 4th line.	Corrected with 45.45 Per Cent.
Per quarter	9,257	12,453	13,459
Per month	3,086	4,151	4,486
Per week	712	958	1,035
Per day	101	136	147

TABLE 1.—Births by Quarters of the year Exhibiting the Number and Per Cent. of Totals for the years 1874 to 1882, inclusive, as Keturned and as Corrected for Omissions in the Enumeration.

1875. 1876. 1877. 1878. 1870. 1890. 1881. 1882.	Ct. of Num. Ct. of Lof Der. Total.	Ct. of Lord Der. Ct. of Lord Der. Total. Der. Der. Total. Der. Total. Der. Total. Der. Total. Der. Total. Der. Der. Total. Der. Total. Der. Der. Der. Der. Der. Der. Der. Der	25 90.73 7,379 21.52 7,146 21.40 7,421 21.19 7,518 22.06 7,718 21.85 7,660 22.04 8,038 24.29 8,174 23.06 8,476 24.00 8,404 24.18 8,533	27.88 9,348 27.01 9,174 27.47 9,330 30.70	61. 101 101 102 20.00 30 00. 00 30 00. 00 30 00. 00 30 00. 00 00 00 00 00 00 00 00 00 00 00 0	25.00 6,536 25.00 8,346 20.00 8,731 25.00 8,831 25.00 8,831	23 100.00	23.79 10,840 24.00 12,446 24.70 12,742 24.44 12,679 25.20 12,626 24.93 19,502 25.10	26.54 11,859 26.25 13,259	64         22.01         10,400         24.11         11,680         21.27         12,534         24.04         11,514         22.97         11,944         23.86         11,421         22.03         12,117           60         .13         10         .23         71         .11         .13         .06         .06         .06         .06         .07         .09         .06         .04         .06 <td< th=""><th></th></td<>	
		31	1		3 8	<u> </u>	<u>8</u>	8	લે ક્ષે 	क्ष	
.878	Per Ct. of Total.	Ct. of Total.				a	100.00	11.16	5. 5 5. 5	24.04	
a		2   R	<u> </u>		: 	<u> </u>	!!				
1877.		1 12				<u> </u>	§				
æ'	Per Ct. of Total.		1			<u> </u>	''				
SI		ž T				<u> </u>	<u>   </u>				8
Ę	Per Ct. of Total.				₹ 		11 1		ន ន	원 	
89	Num. bor.	1	6,625			2,390	46,553		- 769°E	30,6	
ند	Per Ct. of Total.	Ct. of Total. 100.00	20.27	88 8	<b>Š</b>	23.00	100.00	76	8. 8. 5. 8.	86. 80.	
187	Num- ber.	ber.	6,315	8,810	3	7,788	55,841	13,707	15,019	12,302	
TOTALS, AND MONTHS		ber.	March 6,315	September 8,810 28	Unknown	17880		March 13,707 24	Soptember 15,019		

. The number in unknown quarter of year included.

Table I. illustrates the fact that, according to the returns, more births occur in the last six months of the year than in the first six months. Usually the third quarter ending with September has the largest registry, but in 1882, the last quarter had over 27 per cent of all the recorded births. The comparison is carried through a series of years, and it is interesting to note with what uniformity it occurs year after year. In Massachusetts the order is the same as in this State, while in England it is the reverse, more births being recorded in the first six months of the year than in the last.

The average proportion of births, returned as having occurred in Michigan for each quarter of the year for the fifteen years 1868-1882, is as follows: first quarter 21.18 per cent, second quarter 23.96 per cent, third quarter 27.71 per cent, and fourth quarter 26.96 per cent. Calculated for fifteen years it is seen that 45.14 per cent of the births occurred in the first half of

TABLE II.—Births during the Years 1874-1882, inclusive, according to arranged in Order by Number, Months

		1874.			1875.			1876.			1877.			1878.	
IR.	Months.	Num- ber.	Per Ct. of Total.	Months.	Num- ber.	Per Ct. of Total.	Months.	Num- ber,	Per Ct. of Total.	Months.	Num- ber.	Per Ct. of Total.	Months	Num- ber.	Per Ct.of Total.
ORDER.	Total_	31,151	100.00	Total .	31,958	100.00	Total_	34,235	100.00	Total_	33,395	100.00	Total_	35,162	100.00
1	Aug	3,077	9.88	Aug	3,103	9.71	Dec	3,205	9.36	Aug	3,227	9 66	Dec	3,423	9.73
2	Sept	2,972	9.54	Sept	3,081	9.64	Aug	3.124	9.13	Dec	8,145	9.42	Aug	3,295	9.37
3	Dec	2,921	9 38	Dec	2,856	8.94	Sept	3,110	9.08	Sept.	3,048	9.13	Oct	3,266	9.29
4	July	2,761	8.86	Oct	2,819	8.82	Oct	3,039	8.38	Oct	3,015	9.03	Sept	3,260	9.27
5	Oct	2,726	8.75	Nov	2,727	8 53	July	3,014	8.90	July	2,899	8.68	Nov	3,061	8.71
6	Nov	2,726	8.75	July	2,725	8.53	Nov	2,921	8.53	Nov	2,847	8.53	Apr	2,937	8.35
7	May	2,586	8.30	May	2,722	8 52	May	2,870	8.38	Mar	2,690	8.06	Mar	2,836	8.07
8	June	2,558	8.21	Apr	2,710	8.48	Mar	2,744	8.01	May	2,683	8.03	July	2,835	8.06
9	Apr	2,464	7.91	June	2,530	7.91	June	2,739	8.00	June	2,657	7.96	May	2,805	7.98
10	Mar	2,462	7.90	Mar	2,415	7.56	Apr	2,730	7.97	Apr	2,655	7.95	June	2,797	7.95
11	Feb	1,954	6.27	Feb	2,121	6 64	Feb	2,352	6.87	Feb	2,246	6.73	Feb	2,414	6.67
12	Jan	1,899	6.10	Jan	2,089	6.53	Jan	2,283	<b>ც.67</b>	Jan	2,212	6.62	Jan	2,201	6.26
	Unk	45	.14	Unk	60	.19	Unk	104	.30	Unk	71	.21	Unk	32	.(9
	Av,	2,596	8.33	Av*	2,663	8. <b>3</b> 3	Av a	2,853	8.33	Av	2,788	8. <b>33</b>	Av•	2,930	8.33

<sup>.</sup> Including unknown month.

the year, and 54.67 per cent in the last half. When the returns of births are corrected for omissions, as is done in the lower part of the table, it has the effect of distributing the births more equally throughout the year.

Table II. shows the number and per cent of births in each month of the years 1874-1882, the months having the greatest number of births being placed first in order. In four of the six years August stands at the head of the columns and December in the other two. During the fifteen years 1868-1882, the month of August heads the list nine times, December four, and September twice. The months of January and February are the last in order of greatest number first, the former month being last in five of the six years. It should be remembered, however, that probably a larger proportion of the births are returned for the later months of the year, as has been explained in previous reports.

the Returns, exhibiting the Number and Per Cent of Total, by Months, having the greatest number first.

1	1879.			1880.	79		1881.			1882.		1
Months	Num- ber.	Per Ct. of Total.	Months.	Num- ber.	Per Ct. of Total.	Months.	Num- ber.	Per Ct. of Total.	Months.	Num- ber.	Per Ct. of Total.	
Total	34,122	100.00	Total	35,823	100.00	Total	84,749	100.00	Total	37,026	100.00	Ounne
Dec	3,233	9.47	Aug	3,285	9.30	Aug	3,313	9.53	Ang	3,521	9.5	-
Aug	3,198	9.37	Sept	3,278	9.28	Sept	3,204	9.22	Dec	3,477	9,3	1
Sept	3,149	9.23	Dec	3,278	9.28	Dec	3,179	9.15	Sept	3,444	9.30	
Oct	3,036	8.90	Oct	3,173	8.98	Oct	3,078	8.86	Oct	3,379	9.13	
July	3,018	8.84	Nov	3,068	8.69	July	3,027	8.71	Nov	3,215	8 68	1
May	2,842	8.33	July	3,011	8.52	May	2,887	8.31	July	3,100	8.37	
Nov	2,760	8.11	May	2,880	8.15	Nov	2,854	8.21	Apr	3,059	8.26	1
Mar	2,758	8.08	Mar	2,850	8.07	Mar	2,835	8.16	May	3,031	8.19	
Apr	2,706	7.93	Apr	2,824	7.99	Apr	2,805	8.07	Mar	3,004	8.11	1
June	2,626	7.70	June	2,772	7.85	June	2,712	7.80	June	2,733	7,38	1
Jan	2,429	7.12	Feb	2,518	7.11	Feb	2,432	7.00	Feb	2,536	6.85	1
Feb	2,331	6.83	Jan	2,355	6.67	Jan	2,393	6.89	Jan	2,486	6.72	1
Unk	30	.09	Unk	36	.10	Unk	30	.09	Unk	41	.11	1
AT	2,844	8.33	Av	2,944	8,33	Av	2,896	8.33	Ava	3,086	8.33	1

<sup>.</sup> Including unknown month.

EXHIBIT 2.—Births during the Years 1878 to 1882, inclusive, as Corrected for Omissions in the Enumeration, exhibiting the Number and Per Cent of Total, by Months arranged in order by Number, Months having the greatest number first.

	1	1578.			1879.			1880.			1881.			1882.	
	Months.	Num- ber.	Per Ct. of Total.	Months.	Num. ber.	Per Ct. of Total.									
CRDER	Total_	52,145	100.00	Total .	50,130	100.00	Total	50,643	100.00	Total_	49,800	100.00	Total _	49,813	100.00
1	Apr	4,759	9.13	Mar	4,530	9.04	Mar	4,549	8.98	Aug	4,575	9.19	Aug	4,597	9.25
2	Mar	4,730	9.07	Aug	4,519	9.01	Aug	4,543	8.97	Mar	4,514	9.06	Mar	4,432	8.90
8	Aug	4,710	9.03	May	4,407	8.79	Sept.	4,394	8.68	Мау	4,353	8.74	Apr	4,410	8.85
4	Sept	4,504	8.64	July	4,403	8.78	Apr	4,387	8.66	Apr	4,348	8.73	Sept	4,379	8.79
5	May	4,411	8.46	Apr	4,321	8.62	May	4,351	8.59	July	4,308	8.65	May	4,266	8.56
6	Oct	4,357	8.36	Sept	4,305	8.59	July	4,292	8.48	Sept	4,289	8.61	Oct	4,182	8.40
7	June	4,265	8.18	Jan	4,213	8.40	Feb	4,118	8.13	Jan	4,013	8.06	July	4,152	8.33
8	Dec	4,240	8.13	Oct	4,011	8.00	Oct	4,118	8.13	Oct.	3,990	8.01	Dec	4,066	8.16
9	July	4,188	8.03	Dec	3,975	7.93	June	4,070	8.04	Feb	3,975	7.98	Nov	3,869	7.77
10	Feb	4,131	7.92	June	3,952	7.88	Dec	3,975	7.83	June	3,974	7.98	Jan	3,837	7.70
11	Nov	3,937	7.55	Feb	3,936	7.85	Jan	3,959	7.82	Dec	3,852	7.74	Feb	3,828	7.68
12	Jan	3,881	7.44	Nov	3,528	7.04	Nov	3,851	7.60	Nov	3,579	7.19	June _	3,754	7.53
	Unk	32	.06	Unk	30	.06	Unk	. 36	.07	Unk	30	.06	Unk	41	.08
	Ava	4,345	8.33	Ava	4,178	8.33	Ava	4,220	8.33	Ava	4,150	8.33	Av	4,151	8.33

<sup>·</sup> Including births in unknown month.

Exhibit 2 is similar in plan to Table II. and is designed to show the order of the months after the returns of births are corrected for the probable omissions in the enumeration. By comparing the two it will be seen that the order of the months is not the same, but August still maintains its place at the head of the list.

The same principle of correction, employed in previous reports for the omissions in the enumeration of births, is applied to the returns for the year 1882, and the results may be seen in Exhibits A, B, C, D, and 3. This correction is based upon the supposition that the omissions are in proportion to the time which elapses between the occurrence of the births and their enumeration by the supervisors.

EXHIBIT A.—Births in Michigan during the Year 1882, as Returned, as Corrected for Omissions in the Enumeration; the same Equalized for Increase of Population during the Year covered by the Returns, and the Births as thus Corrected, and Equalized for the several Months, Equalized for Months of a Uniform length of 30.44 days each; also, indicating (Still-births and Children of unknown Sex included.) some of the steps by which these results have been reached.

						M	Моктия, 1882.	, 1889.					
	TOTAL.	Jan.	Feb.	Mar. Apr.		May.	May. June. July. Aug.	Juty.	Aug.	Sept.	Oct.	Nov.	Dec.
Births as returned by Registration Officers. Per cent of births to be added for correction for time clapsing before enumeration.	× 36,985	2,486	2,536	3,004	3,039	3,031	2,733	33.95	3,521	3,444	3,379	3,215	3,477
Number of births to be added for above correction	12,787	1,351	1,292	1,428	1,351	1,235	1,021	1,052	1,076	935	803	929	589
Births, if enumerated in months of occurrence	49,779	3,837	3,828	4,439	4,410	4,986	8,754	4,152	4,597	4,379	4,182	3,809	4,066
Per cent of births to be added to equalize them to population at close of year.  Births to be added to equalize them to population at close of year.	1,133	4.21	3.86	3.51	3.16	2.81	92.46	2.11	1,76	1.41	1.06	11: 12	8 =
Births, as corrected, equalized to population at close of year	50,905	3,999	3,976	4,588	4,549	4,386	3,846	4,240	4,678	4,441	4,226	3,806	4,080
Days and hundredths by which the months should be increased or dimin- ished to equalize them to months of uniform length. Number of births added or subtracted to equalize them to months of uniform length.	97+	56 +2.44	+2.44	1.56	+.44	1.56	4.4	17-	99-	+ + + + +	-76	+.44	99-1-24
Births, corrected and equalized, equalized to months of uniform length.	50,950 3,927 4,322 4,505 4,616 4,307 3,902 4,163	8,927	4,399	4,505	4,616	4,307	3,902	4,163	4,593	4,508	4,150	3,953	4,006
Desiration in the second	-		1	1	1	1	1		1	1	1	1	1

" Excluding 41 births in unknown month.

EXHIBIT B.—Births of Males in Michigan during the Year 1882, as Returned, as Corrected for Omissions in the Enumeration; the same equalized for Increase of Population during the Year covered by the Returns, and the Births as the Corrected and Familized for the samuel Mouths. Familised for Mouths of 30, 44 Days each.

thus Corrected and Equalized for the several Months, Equalized for Months of 30.44 Days each	tatized	Jor	HOUSE	18 Of	30.	7 55	ays o	acn.					
						•	ГОИТН	Моитня, 1882.	_				
	TOTAL.	Jan. Feb.	Feb.	Mar.	Apr.	May.	June.	Mar. Apr. May. June. July. Aug. Bopt.	Aug.		Oct. Nov.		Dec.
Births of Males as returned by Registration Officers. Fer cent of births to be added for correction for time elapsing before enumeration.	a 19, 166	1,307	1,305	1,565	1,596	1,558	1,380	1,623	1,823	1,814	1,756	1,648	1,796
Number of births to be added for above correction	8,908	240	883	25	255	<b>3</b>	253	274	<b>8</b> 8	513	\$	8	817
Births of Malos, if enumerated in months of occurrence	26,074	2,047	1,998	2,340	2,833	2,213	1,917	2,196	2,403	2,337	2, 191	1,998	2,113
Per cent of births to be added to equalize them to population at close of year.		4.21	8.88	3.51	3.16	2.81	9.	2.11	1.78	77	1.08	12.	şi
Births to be added to equalize them to population at close of year	2883	88	#	88	72	8	<b>\$</b>	\$	3	g	ន	71	7
Births of Males, as corrected, equalized to population at close of year	28,667	2,133	2,075	2,423	2,407	2,274	1,96,	3,242	2,445	2,360	2,214	2,013	2,119
Days and hundredths by which the months should be increased or dimin- tished to equalize them to months of uniform length. Number of births added or subtracted to equalize them to months of uniform length.	*	56 +2.44 -39 +181	+2.44	8 7	1 + +	1 × 7	÷ + ± 89	8 3	8 4	4. 4	25. 4	4. ÷	1
Births of Males, corrected and equalized, equalized to months of uniform length.	26,691	2,044	3,256	2,378	2,256 2,378 2,442 2,238	2,238	1,983	1,908 2,908 2,401 3,305	2,401		2,174	2,042	2,081

. Excluding 13 births in unknown month.

EXHIBIT C.—Births of Females in Michigan during the Year 1882, as Returned, as Corrected for Omissions in the Enumeration; the same Equalized for Increase of Population during the Year covered by the Returns, and the Births as thus Corrected and Equalized for the several Months, Equalized for Months of 30.44 Days each.

							MONTHS, 1882.	8, 1882					
	TOTAL.	Jan.	Feb,	Mar.	Apr.	May.	June.	July.	Apr. May, June, July, Aug. Sept.		Oct.	Nov.	Dec.
Births of Females as returned by Registration Officers.  Per cent of births to be added for correction for time clapsing before enumeration.	a 17,763	1,176	1,228	1,437	1,456	1,473	1,350	1,473	1,694	1,626	1,619	1,556	1,675
Number of births to be added for above correction	5,806	100	591	646	809	567	477	473	480	418	364	300	906
Births of Females, If enumerated in months of occurrence	93,569	1,780	1,819	2,083	2,064	2,040	1,827	1,946	2,183	2,044	1,983	1,856	1,944
Per cent of births to be added to equalize them to population at close of year	-	4.91	3,86	3.51	3.16	2.81	9.46	2,11	1.76	1.41	1,06	II.	1,85
Births to be added to equalize them to population at close of year	533	2	20	120	8	57	45	17	88	81	21	13	9
Births of Females, as corrected, equalized to population at close of year.	24,101	1,854	1,880	2,156	9,120	2,097	1,872	1,987	2,221	2,073	2,004	1,869	1,950
Days and hundredths by which the months should be increased or diminished to equalize them to months of uniform length.  Number of births added or subtracted to equalize them to months of uniform length.	+	35. 88	+2,44	1.08	+.41	99 88	+.44	1 38 1		16 +.44	1 38-	+.4	35
Births of Females, corrected and equalized, equalized to months of uniform length	24,124	1,821	2,054	2,117	2,160	2,050	1,800	1,951	2,160 2,050 1,800 1,951 2,181	2,103	2,103 1,968	1,896	1,915

. Excluding 24 births in unknown month.

W. H. W. W. Welhe of Males and of Venales in Michigan during the Year 1832, Corrected for Omissions in the Commission, and as thus Corrected, Equalised to Months of Uniform length; also, the total Births of both Sexes as thus

Oversaled and Handland, (Wirthe of Children of unknown Bes not included.)	nun Bez	tons	notan	ted.)		8	8	2			•		1
						36	MONTHS, 1883	, 1880.					
	Torate	dan, Pett, Mar, Apr. Hop., June, July, Ang, Sept. Oct.	Feb.	Mari	App.	400	9110	1909	Awg	Sept.	Oet.	Hor.	Dec.
The state of the state of the second for the state of the	2.00,111.6 3,100 3	1/14 3/14/1 1/16/14 3/24/0 3/24/3 1/2/3 1/2/3 3/3/4 3/4/4 3/2/3 1/2/3 1/2/3 3/3/4 3/4/4 3/2/4 3/	1,000 1,000 1,11+	2,840	100 A 10	8/8/8	11911	2,100	2,463	2,44 4,44 4,84	188		2 2 4
a, measurement and engantleant to movether of mediform throughte	99/160	30,000 3,119 3,119 3,001 2,117 3,173 1,046 9,156 2,300 2,301	8,878	3,200	2,907	2,173	1,940	2,156	2,360	2,301	2,151	2,027	2,074
Manufactured by properties of coccust between or distriction of the coccust of the coccus	8 :	1,789 1,789 3,488 3,784 3,040 1,877 1,946 2,183 -26 +344 -36 +344 -36 +44 -36 -36 +31 -83 +16 -88 +30 -37 +37 -35 -30	1,419	37,000	1,789 1,919 3,688 3,684 3,646 1,927 1,946 2,183 3,044 1,883 1,836 -26 +244 -76 +44 -76 +44 -36 -36 +44 -56 +44 -56 +44 -83 +166 -88 +90 -77 +77 -85 -89 +30 -86 +27	2,040	134.4 12.4 12.4	96,1	2,163	2,044	1,983		1,944
of the preparation and equivalisant to months of uniform length	95,000	1,746	1,078	2,016 2,000	1,746 1,915 2,016 2,016 3,016 1,954 1,911 3,116 2,010 3,010 1,946 1,010	2,008	1,854	1,911	2,390	2,074	1,947	1,883	1,900
of the and Families, historialist and equalized to months of uni-	100/100	N,750	4,150	4,849	4,150 4,150 4,120 8,700 4,007 4,008 4,435 4,008	4,176	8,7(6)	4,007	4,504	4,435	4,008	3,910	8,983
tax to the passible, birthe actioned and equalized to menths of anti-		111 110 110 111 111 100 100 100 111 110 111 110 110 111 100 110 111	110	118	118	100	100	113	110	114	110	108	100

1, b Bastuding 24 births in unknown month.

a manifestion to birthe to newsoon a month,

EXHIBIT 3.—Births in Michigan during the Year 1882, Corrected for Omissions in Enumerating, and Equalized for Maths of a uniform length of 30 44 days each (Nill-hieths and Children of unknown Ser included)

Months of a uniform length of 30.44 days each. (Still-outins and Unitaren of unknown Sex included.)	) (2000)	-orre	าร สม	a Ch	ıtare	6 07	nuen	סנמוו י	11 x90	ıcına	ea.)		
						Z	ОИТН	Моитнв, 1882.					
	TOTAL	Jan.	Feb.	Mar.	Apr.	May.	Jane.	July.	Jan. Feb. Mar. Apr. May. Junc. July. Aug. Sept. Oct. Nov. Dec.	Sept.	Oct.	Nov.	Dec
Births, if enumerated in months of occurrence 4,177 4,177 3,837 3,838 4,432 4,410 4,288 3,734 4,158 4,507 4,379 4,192 3,800 4,066	• 49,773	3,837	3,828	4,432	4,410	4,388	3,734	4,138	4,507	4,879	31,4	86	4,086
Days and hundredths by which the months should be increased or diminished to equalize them to months of uniform length.  Number of births added or subtracted to equalize them to months of uniform length.	+ 43	8 8	+ 2.44	1   25   86   1	4. 4	8.1	4. 4	35 FZ		1 + +	36	+ + + 55 +	76
Births, corrected and equalized to months of uniform length	49,814 3,768 4,162 4,862 4,475 4,189 3,906 4,077 4,514 4,443 4,106 3,996 3,988	3,768	4,162	4,865	4,473	4,189	3,800	4,077	4,514	4,4	4,106	3,936	3,993

. Excluding 41 births in unknown month.

It is interesting to compare the number of births with the number of marriages in months of conception of the births. This is done in Table III. and Exhibit E, where the influence of the marriage-rate upon the conception-rate may be studied. It is seen that about 37,000 conceptions, or births nine months later, occurred in the months in which 16,000 marriages were solemnized.

TABLE III.—Exhibiting the Relation between the Births Returned as having occurred in Michigan during the Year 1882, and the Marriages solemnized in the Months of the Years 1881 and 1882, in which the Conceptions probably occurred. (Births and Marriages in unknown month excluded.)

BIRT	CHS RETURNED AS HAVE 30.44 DATS BACH, II	NG OCCUBE N ORDER B	ED IN 1892, EQUALIZED TO MO Y NUMBER, GREATEST FIRST.	NTHS OF	Number of Marriages from April,
	BIRTHS, a		Conceptions.		1861, to March 1862, equal- ized to Months of
	Year and Months.	Number.	Months.	Year.	30.44 days each.
Year	·	36,991			15,807
	September	3,495	December	1881	1,661
٠	August	3,457	November	1861	1,678
ŠE	December	3,415	Marche	1983	1,180
than the Av. of Births.	October	3,318	January	1982	1,318
More No.	November	3,962	Februarye	1882	1,234
X	( 1 pril	3,103	July	1981	1,254
74	orage	2,083			1,317
	Jaly	3,044	Octoberc	1861	1,623
Žį	May	2,976	August	1981	1,068
	March	2,950	June	1981	1,149
15	June	2,773	September	1:61	1,423
Lene 1 No.	February	2,737	Жау	1881	1,167
	January	2,441	April	1981	1,150

a Excluding 41 births in unknown month.
b (brrected up to December 17, 1883,
c Exceptions to the proposition that more than the average number of conceptions appear for months when more than the average number of marriages were solemnized, and vice versa.



When the births are corrected for omissions in the enumeration, as is done in Exhibit E, it is seen that there are also six exceptions to the proposition that a large marriage-rate in the months of the conception of the births is followed by a large birth-rate.

EXHIBIT E.—The Relation between the Births in Michigan during the Year 1882, Corrected for Omissions in Enumerating, and the Marriages solemnized in the Months of the Years 1881 and 1882, in which the Conceptions probably occurred. (Births and Marriages in unknown month excluded.)

	NU	MBER, GR	EATEST FIRST.		Marriages from April, 1881, to
	BIRTHS. *		Conceptions.	17	March, 1882 Equalized to Months o
	Year and Months.	Number.	Months.	Year.	30.44 Days.
Year		49,814			15,807
	August	4,514	November	1881	1,678
bs.	April	4,475	Julye	1881	1,254
than the Av. of Births.	September	4,443	December	1881	1,661
ther of 1	March	4,352	June	1881	1,142
More I	May	4,189	August	1881	1,068
M	February	4,162	Мау	1881	1,167
Av	erage	4,151			1,317
. 1	October	4,106	January	1882	1,218
Av.	July	4,077	October	1881	1,623
Birti	December	3,993	March	1882	1,180
Less than the Av. No. of Births,	November	3,926	February	1882	1,234
No.	June	3,809	September	1881	1,423
7	January	3,768	April	1881	1,159

#### PROPORTION OF THE SEXES.

In Table IV. may be found the number of the children born in each county of the State during the year 1882, the number in each month of the year, and the number of each sex respectively. According to the returns, the number of male children born in Michigan during the year 1882, was 19,179. This number is larger by 1,238 than that of 1881, and larger by 806 than in any

is year. The number of female children whose births were returned in as 17,787, which is also larger than has been recorded in any previous vevery year the number of male children in Michigan has been larger number of female children. For a period of fifteen years from 1868

<sup>\*</sup> Unknown month excluded.

6 Corrected for additional returns up to December 17, 1883.

6 Exceptions to the proposition that more than the average number of conceptions appear for months when more than the average number of marriages were solemnized, and vice versa.

to 1883, the average excess of male births in this State has been 109 males to each 100 females.

Quite a variation will be seen in Table IV. in the proportion of the sexes in the different counties. In 52 counties there was an excess of male births, in 20 counties of female births, and in 6 counties the number was equal. Comparing the relative proportion of the sexes in the larger counties of the State where the returns are more complete, it is seen that Ionia county has the largest excess of male births, while Kalamazoo county has the largest excess of female births.

The number of births in 1882, in which the sex was not reported, was 60, one less than in 1881. Of this number, 11 were in the two counties of Berrien and Ottawa.

TABLE IV.—Exhibiting, by Counties and by Sex, the Number of Children Returned as having been born in Michigan during the Year, and in each Month of the Year ending December 31, 1882. (Still-births included.)

CTATE							M	LONT	HS, 1	582					
Alcona	SEX.	YEAR. 1882.	January.	February.	March.	April.	May.	June.	July.	Angust.	September.	October.	November.	December.	Unknown.
	Total	37,026	2486	2536	3004	3000	3031	2733	3100	3521	3444	3379	3215	3477	_
1210	Males	19,179	1307	1365	1565	1388	1553	1380	1022	1821	1814	1756	1648	1795	
	Females	17,787	1176	1228	1437	1436	1473	1350	1173	1694	1626	1619	1556	1675	
	Unknown	60	3	3	2	8	3	3	5.	4	4	4	11	7	
	Total	17	1		1	3	3	3	1	2	1	1		1	
Alcona	Males	10	1	1.55	1		3	2	1	1	1	****			
	Females	7		1144		3		- 1		1		1		1	
	Total	100	34	35	6	63	68	63	23	78	68	78	36	69	
	Males	365	30	22	.30	39	81	25	27	38	25	39	27	25,	
		430	22	33	55	21	50	8	27	45	39	39	29	3	

TABLE IV.—Continued.—Births by Counties, by Months, and by Sex.

							M	LONT	HS,	1882.					
COUNTIES.	SEX.	YEAR, 1882.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
	Total	1,510	118	97	109	133	144	111	119	135	142	126	137	139	
Bay	Males	818	66	56	65	67	78	61	69	67	79	68	70	72	
	Females	692	52	41	44	66	66	50	50	68	63	58	67	67	
	Total	103	5	3	6	16	8	9	10	n	6	7	9	13	
Benzie	   Males	49	4	1	1	11	3	2	6	4	3	5	3	6	
	Females	54	1	2	5	5	5	7	4	7	3	2	6	7	
	[Total	664	55	52	61	53	50	43	47	65	51	74	49	63	
	Males	362	34	30	33	29	24	23	23	39	25	29	25	38	
Branch	{   Females	297	21	22	27	24	26	20	23	26	25	34	24	24	
	Unknown	5			1				1		1	1		1	
	(Total	400	25	30	30	36	43	34	40	40	30	33	25	34	
	Males	217	14	14	15	22	28	16	25	18	17	16	11	21	
	Females	183	11	16	15	14	15	18	15	22	13	17	14	13	
	[Tota]	571	22	26	39	42	50	48	41	64	62	78	53	46	13
Calhoun	Males	309	12	13	22	23	25	30	29	40	29	35	26	25	-
	Females	262	10	13	17	19	25	18	12	24	33	43	27	21	
	(Total	378	22	22	34	26	31	23	43	50	39	34	21	33	
Ca.as.	Males	182	11	15	12	13	17	7	19	25	20	17	9	17	1
· · · · · · · · · · · · · · · · · · ·	1		11	7	22	1527		100	24	25	19	17	12		
	(Females	100	JI FO	1 10		13	14	16					0.00	16	
	Total	1300	12	15	12	17	19	9	18	22	21	13	15	14	
Charlevoix	Males	104	6	7	8	11	9	6	12	9	12	7	7	10	
	Females	1 0	- 6	8	4	6	9	3	6	12	9	6	7	4	
	(Unknown	3					1	****		1			1		
Oh ak	Total	i	18	17	23	27	25	26	9	14	21	1	15	22	
Cheboygan	Males	116	11	9	14	14	10	14	5	5	9	5	8	12	1
	(Females		7	8	9	13	15	12	4	9	12	9	7	10	١.
Oh to	Total	1	9	13	13	12	15	15	7	11	8		11	7	1
Chippewa	Males		100	2	5	8	7	7	4	4	5	4	6	4	
	[ Females		2	11	8	4	8	8	3	7	3	1	- 5	3	
	Total	101	8	4	7	12	6	10	7	8	8	12	8	6	1
Çîtere	Males	56	4	2	- 5	6	2	6	5	2	4	10	5	4	
-	Females	42	4	2	2	5	4	4	2	5	4	2	3	2	1
(1) (1) (1) (1) (1) (1) (1) (1) (1) (1)	Unknown	. 3				1				1		**	157		
•	[Total	443	16	29	37	42	32	43	45	41	37	40	38	43	
PROGR	Males	224	9	16	23	16	16	20	19	28	19	17	19	22	
	Tomales	219	7	13	14	26	16	23	26	13	18	23	19	21	

to 1882, the average excess of male births in this State has been 109 males to each 100 females.

Quite a variation will be seen in Table IV. in the proportion of the sexes in the different counties. In 52 counties there was an excess of male births, in 20 counties of female births, and in 6 counties the number was equal. Comparing the relative proportion of the sexes in the larger counties of the State where the returns are more complete, it is seen that Ionia county has the largest excess of male births, while Kalamazoo county has the largest excess of female births.

The number of births in 1882, in which the sex was not reported, was 60, one less than in 1881. Of this number, 11 were in the two counties of Berrien and Ottawa.

TABLE IV.—Exhibiting, by Counties and by Sex, the Number of Children Returned as having been born in Michigan during the Year, and in each Month of the Year ending December 31, 1882. (Still-births included.)

COM A MINT							M	ONT	нв, 1	882.					
STATE AND COUNTIES.	SEX.	YEAR, 1882.	January.	February.	March.	April.	May.	June.	July.	August	September.	October.	November.	December.	Unknown.
	(Total	37,026	2486	2536	3004	3059	3031	2733	3100	3521	3444	3379	3215	3477	43
9tata	Males	19,179	1307	1305	1565	1598	1553	1380	1622	1823	1814	1756	1648	1795	13
State	Females	17,787	1176	1228	1437	1456	1473	1350	1473	1694	1626	1619	1556	1675	24
	Unknown	60	3	3	2	5	5	3	5	4	4	4	11	7	4
	[Total	17	1	1	1	3	3	3	1	2	1	1		1	
Alcona	Males	10	1		1		3	2	- 1	1	1	****			
	Females	7		1.		3		1		1		1		1	
	[Total	777	52	57	67	63	68	63	55	78	68	78	56	69	3
	Males	365	30	22	30	39	31	26	27	30	29	39	27	35	
Allegan	Females	410	22	35	37	24	37	37	27	48	39	39	29	34	2
	Unknown	2							1						1
	[ Total	352	36	29	31	30	33	18	30	34	24	25	24	38	
	Males	169	17	12	18	17	14	5	16	18	7	14	12	19	
Alpena	Females	182	19	17	12	13	19	13	14	16	17	11	12	19	
	Unknown	1		1.5	1		****								
	{ Total	146	7	8	13	10	19	13	12	9	19	11	15	10	
Antrim	. Males	76	4	6	2	- 5	8	8	5	6	13	5	9	5	
	Females	70	3	2	11	5	11	5	7	3	6	6	6	5	
	[ Total	63	1	4	7	6	7	4	10	3	5	3	5	8	
Baraga	.   Males	30	1	2	5	2	3	2	5	2	1	1	. 9	4	
	Females	33		2	2	4	4	2	5	1	4	2	3	4	
	f Total	430	21	24	31	30	37	33	30	56	45	38	37	48	
Barry	.   Males	215	9	13	22	14	18	16	13	26	24	19	16	25	
	Females	215	12	11	9	16	19	17	17	30	21	19	21	23	

TABLE IV .- CONTINUED .- Births by Counties, by Months, and by Sex.

							A	IONT	нв,	1882.					
COUNTIES.	SEX.	YEAR, 1882.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
	[Total	1,510	118	97	109	133	144	111	119	135	142	126	137	139	
lay	Males	818	66	56	65	67	78	61	69	67	79	68	70	72	
	Females	692	52	41	44	66	66	50	50	68	63	58	67	67	
	[Total	103	ŏ	3	6	16	8	9	10	11	6	7	9	-13	
Senzie	Males	49	4	1	1	11	3	2	6	4	3	5	3	6	
	Females	54	1	2	5	5	5	7	4	7	3	2	6	7	440
	(Total	664	55	52	61	53	30	43	47	65	51	74	49	63	
	Males	362	34	30	33	29	24	23	23	39	25	39	25	38	
Berrien	Females	297	21	22	27	24	26	20	23	26	25	34	24	24	
	Unknown	5			1				1		1	1		1	
	[Total	400	25	30	30	36	43	34	40	40	30	33	25	34	
Branch	Males	217	14	14	15	22	281	16	25	18	17	16	11	21	
	Females	183	11	16	15	14	15	18	15	22	13	17	14	13	
	(Total	571	22	26	39	42	50	48	41	64	62	78	53	46	
alhoun	Males	309	12	13	22	23	25	30	29	40	20	35	26	25	п
###VUII	Females	262	10	13	17	19	25	18	12	24	33	43	27	21	
	(Total	378	22	22	34	26	31	28	43	50	39	34	21	33	
hes	Males	182	11	15	12	13	17	7	19	25	20	17	9	17	n
ASS			11	77	22	13	133	16	24	25	19	17	12	16	-
	(Females	196	100	7		( 33	14		1 33		1000	1	1	1 33	п
	Total	187	12	15	12	17	19	9	18	22	21	13	15	14	r
Charlevoix	Males	104	6	7	8	11	9	6	12	9	12	7	7	10	П
	Females	80	6	8	4	6	.9	3	6	12	9	В	7	4	-
	(Unknown	3	****	****	****	****	1		****	1			1		-
	[Total	232	18	17	23	27	25	26	9	14	21		15	22	
heboygan	Males	116	11	9	14	14	10		5		9	1		12	
	(Females	116	7	8	9	13	15	12	4	9	12	1 3	7	10	1
	[Total	126		13	13	12	15	15	7	11	8	5	11	7	-
Chippewa	Males	63	7	2	5	8	7	7	4	4	5	4	6	4	-
	Females	63	2	11	-8	4	8	8	3	7	3	1	5	3	1-
	Total	101	8	4	7	12	6	10	7	8	8	12	8	6	1
Mare	Males	56	4	2	5	6	2	6	- 5	2	4	10	5	4	
	Females	42	4	2	2	5	4	4	2	5	-4	2	3	2	1
	Unknown	. 3				1				1			****		1
	[Total	443	16	29	37	42	32	43	45	41	37	40	38	43	1-
linton	. Males	224	9	16	23	16	16	20	19	28	19	17	19	22	-
	Females		7	13	14	26	16	23	26	13	18	23	19	21	

TABLE IV.—Continued—. Births by Counties, by Months, and by Sex.

							3	IONT	нs,	1882.					
COUNTIES.	SEX.	YEAR, 1882.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November,	December.	Unknown.
	Total	43	1	1	2	2	4	2	7	6	7	5	3	3	
	Males	23	1		2		3	2	3	5	4	1	1	1	
Crawford	Females	19		1		2	1		3	1	3	4	2	2	
	Unknown	1							1						
	[ Total	141	6	10	13	16	20	5	12	12	13	9	11	14	
Delta	Males	64	1	5	6	6	13	1	5	6	7	3	4	7	
	Females	77	5	5	7	10	7	4	7	6	6	6	7	7	
	[Total	476	29	25	39	43	39	36	45	-55	34	36	47	48	
	Males	256	15	12	17	23	19	16	25	31	20	20	30	28	
Eaton	Females	219	14	13	22	20	20	20	20	24	14	16	16	20	
	Unknown	1											1		
	[Total	142	5	10	9	17	14	9	12	13	15	13	12	13	
Emmet	Males	74	2	5	5	8	6	4	9	7	8	6	7	7	
	Females	68	3	5	4	9	8	5	3	6	7	7	5	6	
	[Total	668	30	39	54	64	66	41	57	63	68	62	62	53	
Genesee	Males	347	21	16	25	39	36	21	28	31	37	32	31	30	
	Females	321	18	23	29	25	30	20	29	32	31	30	31	23	
	[ Total	17		1		1	2	3	1	2	2	9		3	
	Males	8	1777	1				2			1	1		3	
Gladwin	Females	8	1.77				2	1	1	2	1	1			
	Unknown	1	1			1									
	[Total	107	12	10	6	13	9	2	8	12	6	10	8	11	
Grand Traverse	Males	51	6	4	3	7	4	1	5	2	3	4	3	9	
and the second second	Females	56	6	6	3	6	5	1	3	10	3	6	5	2	
	[Total	1	36	31	28	40	36	32	56	50	44	41	41	47	
Gratiot	Males	1	17	17	14	23	15	17	33	25	19	24	17	23	
	Females	239	19	14	14	17	21	15	23	25	25	17	24	24	
	[Total	469	32	37	30	35	31	38	37	53	41	53	46	36	
Hillsdale	Males	246	16	21	15	16	15	17	21	32	22	29	24	18	
	Females			16	15	19	16	21	16	21	19	24	22	18	
	[Total	1	100	51	90		55	55	76	80	65	77	73	94	
Houghton	Males	459	1 35	27	47	47	29	29	41	41	40	46	1	44	1
	Females			24	43	38	26	26	35	39	25	31	34	50	
	[Total	100		1	53	1	1.77	53	50	50	58	69		77	П
Huron	Males	1 1000	1	1 77	28	1	1	26	31	25	26	45		35	
***************************************	Females	355	1 3 3		105	1		27	19	25	32	24		42	
	( Females	1 010	1	1	-0	1 -0	1 -0		20	-	-	1 -	1 -	-	1

TABLE IV .- CONTINUED -Births by Counties, by Months, and by Sex.

							A	IONT	HS,	1882.					
COUNTIES.	Sex.	YEAR, 1882.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
	[Total	565	37	47	32	52	35	32	51	42	60	69	55	53	
Ingham	Males	269	20	21	13	22	19	15	24	17	.36	31	25	26	
	Females	296	17	26	19	30	16	17	27	25	24	38	-30	27	
7 1	[Total	545	40	28	38	53	57	44	53	57	43	42	40	50	
Ionia	Males	316	18	16	23	32	28	23	33	34	28	28	24	29	
	Females	229	22	12	15	21	29	21	20	23	15	14	16	21	
	[Total	191	8	19	18	10	29	16	12	18	20	21	11	9	
Iosco	Males	109	5	9	8	7	19	9	6	12	13	13	4	4	
	Females	82	3	10	10	3	10	7	6	6	7	8	7	5	
-	[Total	335	18	19	18	28	40	29	31	39	28	31	34	16	
Annual Control	Males	169	12	10	8	16	21	14	17	14	13	20	20	3	
Isabella	Females	164	6	9	10	11	18	15	14	25	15	11	14	13	
	Unknown	1				1	1								
Isle Royal	- 1210 TO 12301						10								
	[Total	742	42	60	49	55	55	58	62	78	76	75	57	75	
	Males	-16	1 6	26	28	27	28	31	35	43	36	29	29	34	
Jack son	Females				11 110	28	100	27	27	35	40	45	28	41	
	Unknown	1 190	113			. 20	21	21	**	90		1	20	91	***
		100	1	1	13					****		1		40	
	Total	0.4	1	43					37	67	56	45	41	48	1
Kala mazoo	Males	253	100			16		18		32	30	16	17	22	13
	Females	1/ 7/3	1 3	24	16	6		25	22	35	26	29	24	26	1
	Unknown	1 3	100			1	113	****	****				****		***
man and	[Total		100	100	3		1 3	1			5			4	100
Kalkaska	Males		3	4	2	4		5		100	3	110	100		1
	Females			3	1	2	1	4	3	10	2	2		4	r
	Total	1,620	95	99	131	124	123	117	115	162	172	168	151	161	
Kent	Males	853	46	48	67	67	65	62	61	86	97	85	86	82	
	Females	- 766	49	51	64	57	58	55	54	76	75	83	64	79	
	(Unknown	- 1											1		
	[Total	- 289	16	20	33	29	26	23	27	29	22	26	19	19	
Keweenaw	Males	- 140	10	9	13	13	17	13	12	16	10	13	9	10	
newcena w	Females	- 143	3 6	11	20	16	9	10	15	13	12	12	10	9	
	Unknown	- 1										1			
	[ Total	. 100	2	9	7	19	11	8	9	9	9	11	0	6	
***************************************	Males	. 5	3 5	4	1	5	4	4	3	3	7	6	8	3	
	Females	- 4	,	1 2	5		3 7	4	6	0	2	5	2	3	

# VITAL STATISTICS OF MICHIGAN, 1882.

TABLE IV.—Continued.—Births by Counties, by Months, and by Sex.

							1	Mon	rns,	1882					
COUNTIES.	Sex.	YEAR, 1882.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown,
	[Total	619	35	45	43	49	43	50	64	68	71	44	50	57	
	Males	321	18	25	25	23	23	26	34	29	37	20	24	37	
Lapeer	Females	297	17	20	18	26	20	24	30	39	34	24	25	20	
	Unknown	1											1		
	Total	155	5	6	9	17	12	10	17	20	16	16	18	9	
Leelanaw	Males	84	2	1	6	10	8	7	11	10	10	10	5	4	
	Females	71	3	5	3	7	4	3	6	10	6	6	13	5	
	Total	652	60	51	47	46	34	43	62	67	59	50	62	70	
Lenawee	Males	324	31	23	21	26	21	14	32	33	29	28	31	35	
	Females	328	29	28	26	20	13	29	30	34	30	22	31	35	
	(Total	347	20	23	25	42	27	34	33	26	32	30	25	30	
	Males	180	11	10	15	20	12	16	17	14	19	17	13	16	
Livingston	Females	165	9	13	10	22	14	18	16	12	13	13	11	14	
	Unknown	9					1						1		
	Total	19	100	1.1		3	3	3	2	2	3			3	
Mackinac	Males	13				2	1	2	1	9	3			1	1
	Females	6	1. 2				2	1	1					2	
	[Total	665	1000	37	55	37	46	60	61	71	69	1	67	50	
Macomb	100000000000000000000000000000000000000	320		14	31	15	22	27	35	27	42	28	35	25	
<b>22400 m.b</b>	Females	345	22	23	24	22	24	33	26	44	27	34	32	34	-
	[Total	542	31	37	45	36	41	57	47	56	50	37	45	60	T.C.
	Males	284	20	26	18	17	16	20	26	37	19	20	19	37	
Manistee	Females	257	11	11	27	19	25	28	21	19	31	17	25	23	
	Unknown	1			-						91		1	117	
	(Total	28			1	3	3	4	2	5	2		2	6	
Manitou	Males	15	in'		1	1	2	2	1	3		E	1	4	
Manitou	Females	13			100	2	1	2	1	2	2		1	2	
	(Total	1,014	68	70	77	77	107	69	102	101	84	90	81	88	m
	Males.	515	33	37	41	39	53	35	51	49	47	46	41		
Marquetto	1		34	33	36	38	54	34	51	52	37	43	100	43	••••
	Females	496		- 33	30	90	34	34	31	100			40	44	
	(Unknown	3	1		10	7.0	19	35	10	23	10	1	91	1	****
	Total	202	15	8	-	16	-	15	18	100	12	18	21	27	
Mason	Males	96	5	4	6	6	9	8	8	14	6	6	12	12	****
	Females	104	10	4	4	9	10	7	10	9	6	12	9	14	•
	(Unknown	9	****			1				••••		****	****	1	

TABLE IV.—CONTINUED.—Births by Counties, by Months, and by Sex.

							3	IONT	HS,	1882.					
COUNTIES.	SEX.	YEAR, 1882.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
	Total	405	26	31	35	49	24	36	36	40	37	40	21	30	
Mecosta	Males	218	8	19	17	27	13	23	21	16	21	23	14	16	
200 100 100 100 100	Females	187	18	12	18	22	11	13	15	24	16	17	7	14	
	Total	254	21	16	18	23	15	14	22	24	26	17	30	28	
	Males	122	7	8	5	11	6	9	13	13	10	11	13	16	
Menominee	Females	129	14	8	13	12	9	5	9	11	16	6	14	12	
	Unknown	3											3		
	[Total	135	4	11	14	10	19	16	7	14	11	14	11	11	
Midland	Males	64		8	7	3	6	7	2	11	3	6	6	5	
	Females	71	4	3	7	7	6	9	5	3	8	8	5	10	
	[Total	62	1	3	4	11	3	4	7	10	5	6	5	3	
	Males	27	1	2		6	1	9	2	3	2	3	9	3	
Missaukee	Females	32			4	5	2	1	5	7	2	3	3		
	Unknown	3		1	. 33		1	1	ď		1			****	
	[Total	776	40	61	57	64	58	65	60	75	63	74	78	81	-
Monroe	Males	424	28	28	29	33	32	41	32	44	32	40	37	48	***
atouroe	The second of th	352	12	33	28	31	26	24	28	31					
	(Females	632	47	32	53	100	1 5			73	31	34	41	33	
	Total			11.0	-	51	44	44	54	1000	67	50	56	61	•
Montcalm	Males	324	23	15	28	24	19	22	24	42	30	31	32	34	***
	Females	307	24	17	25	27	24	22	30	31	37	19	24	27	
	Unknown	0 1			****	* **	1		••••		****		****		
Acres No.	Total	13	1	2	1	1		1	3	****	****	3	1	****	
Montmorency	Males	9	1	****	1	****	****		3	****	****	3	- 1	****	
	(Females	4		2		1	•	1	***			••••			
	Total	888	76	56	72	53	69	71	69	81	88	82	83	88	
Muskegon	Males	444	41	27	38	29	32	38	34	36	42	45	38	44	
	Females	443	35	29	34	24	37	32	35	45	46	37	45	44	
	Unknown	1				****	****	1			****				
	Total	288	10	24	28	26	32	17	25	32	35	16	22	20	
Newaygo	Males	145	6	13	16	13	15	7	13	18	13	8	15	8	
	Females	143	4	11	12	13	17	10	12	14	22	8	7	12	
	[ Total	570	43	28	34	42	35	39	62	65	72	51	<b>6</b> 3	46	
Oakland	Males	292	19	13	15	23	17	18	31	38	38	30	29	21	
Oakland	Females	275	23	15	19	19	18	21	30	27	34	21	23	25	
	Unknown	3	1						1				1		

TABLE IV.—Continued.—Births by Counties, by Months, and by Sex.

							1	Mon:	rhs,	1882.					
counties.	SEX.	YEAU, 1882.	January.	February.	March.	April.	May.	Jane.	July.	August.	September.	October.	November.	December.	Unknown.
	[Total	283	11	13	34	28	25	15	26	31	29	24	23	24	
)ceana	Males	137	5	6	16	18	12	5	13	14	14	16	8	10	
	Females	146	6	7	18	10	13	10	13	17	15	8	15	14	
	[Total	50	1	3		5	2	6	6	5	7	2	7	6	
)gemaw	Males	23	1	1		3	1	1	4	3	1	1	4	3	
	Females	27		2		2	1	5	2	2	6	1	3	3	
	[Total	76	4	4	3	6	8	5	S	7	10	9	5	7	
ontonagon	Males	46	3	4	1	2	-6	3	6	3	6	5	2	5	
	Females	30	1		9	4	2	2	2	4	4	4	3	2	
	[Total	311	16	17	21	27	33	29	36	25	28	33	24	20	
sceola	Males	170	8	11	11	13	13	16	21	35	17	18	12	15	
	Females	141	8	6	10	14	20	13	15	10	11	15	12	7	
	[Total	14		1		1	2	,	1	5	1	2		1	
scoda	Males	6		1			1		1	2		1			
	Females	8				1	1			3	1	1		1	
	[Total	44	2		1	1	4	5	1	6	5	7	8	4	
tsego	Males	23				1	2	4		4	3	4	3	2	
	Females	21	2		1		2	1	1	- 2	2	3	5	2	
	[Total	888	65	82	85	75	70	64	79	74	73	73	74	73	
***	Males	449	29	42	44	36	38	34	41	38	40	37	31	39	
ttawa	Females	433	36	40	41	39	32	29	38	34	32	36	43	33	
	Unknown	6						1		2	1			1	
	[Total	143	3	9	16	16	13	14	7	.9	9	18	16	13	
Presque Isle	Males	84		7	7	10	6	11	5	5	4	10	11	8	
	Females	59	3	2	9	6	7	3	2	4	5	8	5	5	
	[Total	26			5	4	1	3	4	5	2	1	44	1	
Roscommon	Males	17			3	1	.,	3	3	3	2	1		1	
	Females	9			2	3	1		1	2					
	[Total	1,613	116	124	134	131	137	131	161	132	132	135	131	149	
	Males	855	68	70	71	65	76	62	99	67	69	72	63	73	
aginaw	Females	757	48	54	63	66	61	69	62	65	63	63	68	75	
	Unknown	1												1	
	[Total	740	44	38	70	78	60	51	61	62	73	76	59	68	
Sanilac	. Males	400	27	20	36	51	31	19	30	30	39	42	37	38	
	Females	340	17	18	34	27	20	32	31	32	34	34	22	30	

# BIRTHS BY COUNTIES, BY MONTHS, BY SEX.

TABLE IV.—Continued.—Births by Counties, by Months, and by Sex.

							N	Ioni	HS,	1882.	•				
COUNTIES.	SEX.	YEAR, 1882.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
	Total	44	4	1	3	3	5	4	6	2	4	4	3	4	
	Males	20			2	1	2	2	4	1	2	3	1	2	
choolcraft	Females	23	4	1	1	2	3	2	2	1	2	1	2	2	
	Unknown	1													
	[Total	425	16	28	28	29	36	39	32	36	40	41	44	55	
	Males	219	12	12	15	15	17	19	9	20	22	23	21	34	
hiawassee	Females	205	4	15	13	14	19	20	23	16	18	18	23	21	1
	Unknown	1		1											
	f Total	907	59	69	76	62	59	69	74	91	90	85	85	87	
	Males	460	34	33	35	29	26	36	35	53	43	42	49	45	
t. Clair	Females	445	25	36	41	33	33	33	38	38	46	43	36	42	1
	Unknown	2							1		1				
	[Total	475	38	30	40	42	38	34	41	41	48	37	40	46	
t. Joseph	Males	240	23	17	26	18	19	16	20	23	24	14	20	20	
	Females	235	15	13	14	24	19	18	21	18	24	23	20	26	
	f Total	710	47	54	52	59	60	64	63	57	54	72	70	58	
Cuscola	Males	361	23	30	19	31	33	33	31	31	32	40	37	21	
	Females	349	24	24	33	28	27	31	32	26	22	32	33	37	
•	Total	475	28	29	36	26	51	36	38	37	50	49	55	40	
	Males	254	16	17	17	14	28	19	20	18	30	24	27	24	
an Buren	Females	220	12	12	19	12	23	17	18	19	20	25	28	15	
	Unknown	1												1	
	{Total	598	39	35	37	53	54	35	42	64	68	60	71	40	
	Males	300	22	22	18	27	19	16	22	35	31	29	39	20	
Washtenaw	Females	296	16	13	19	26	35	19	20	29	37	31	31	20	
	Unknown	2	1										1		
	[Total	5,099	433	409	501	391	365	302	348	404	472	476	457	541	
_	Males	2,703	232	208	280	209	203	156	164	221	268	238	248	276	
Vayne	Females	2,394	201	201	221	182	161	146	184	183	204	238	209	264	
	Unknown	2					1							1	
	[Total	240	18	12	20	22	30	15	26	22	16	15	17	27	
Wexford	.   Males	116	6	8	10	13	14	11	11	9	7	7	7	13	
	Females	124	12	4	10	9	16	4	15	13	9	8	10	14	

Table V. shows the number of inhabitants, the birth-rate, and the proportion of the sexes among the different races of people in Michigan. Only the population of counties and townships represented by returns of births are employed, and comparing the number of inhabitants in 1880 with the births in 1882, it seems that the birth-rate is about the same for the Whites as the average for all colors, and less than the average among the Black, Mulatto, and Indian races. This was also true for the year 1881. The birth-rate among the Black and Mulatto inhabitants is much smaller than the average for all colors, and smaller than among the Indians.

The proportion of the sexes for each color shows an excess of males for each race except the Mulatto, the largest excess of males being for the Indians. There appears an excess of female children among the Mulatto race when studied separately, but when united with the Black the males predominate.

Table VI. shows, for Michigan, the number of births in 1882 and the number of inhabitants in 1880, by county and by sex. The number of births in 1882 was 2.27 per cent of the number of inhabitants in 1880, the number of male births in 1882 was 2.23 per cent of the male inhabitants, and the number of female births was 2.30 per cent of the female inhabitants. The birth-rate for the year 1882 is 14 per cent greater than in 1881, and 10 per cent greater than in 1880. By this table we are enabled to compare the birth-rate in each county in 1882 with the rate for the entire State, and also to note the difference in the birth-rates of the various counties. Some allowance must be made for defective registration, which is probably greater in some counties than in others. The counties showing the highest birth-rates for the year 1882, according to the returns, are Alpena, Bay, Charlevoix, Crawford, Houghton, Kewcenaw, Manistee, Marquette, Missaukee, and Presque Isle, while the counties of Branch, Lenawee, Oakland, and Washtenaw show a rate considerably less, in any year, or in a series of years, than that of the State at large. An explanation of this difference may, perhaps, be in the fact that many of the former counties contain manufacturing and mining centers, which attract the productive class of the population, while the latter counties are more rural sections and contain a less prolific people, the young men and women being attracted from the country into the cities.

In Table VI. may also be seen, by counties, the number of children born among the White, Black. Mulatto, and Indian races. The largest number of Black and Mulatto births is returned from the counties of Wayne and Cass, and the largest number of Indians is returned from Emmet county. Only two births were returned for 1882 without the statement of the color of the children being given, one in Allegan county and one in Chippewa. This is

the best showing we have ever had in this State.

TABLE V.—Exhibiting, by Color and by Sex, the Number of Inhabitants of Michigan June 1, 1880, the Number of Children returned as having been born in the State during the Year 1882, the Per Cent of Children born in 1882 to Inhabitants in 1880, the Per Cent of Children of each Sex to the Total Number of both Sexes, and the Number of Inhabitants to each Child born of the same color. (Still-births included.)

RACE OR COLOR.	SEX.	Population June 1, 1890, Repro- sented by Births in 1882.	Children Born in 1882.	Per Cent of Births of each Color to Total of all Col- ors, by Sex.	Per Cent of Children born to Inhabit- ants.	Per Cent of each Sex to Children of Both Sexes.	Inhabit- ants to one Child born, by Color and Sex.
	Total	a 1,633,352	37,026	100,00	2.27		44.11
	Males	860,179	19,179	100.00	2.23	51.88	44.85
All Colors	Females	778,173	17,787	100.00	2.30	48.12	43.47
	Unknown.		60	100.00			
			<del></del>		<del></del>		
	Total	1 ' '	36,667	99.03	2.28	•••••	43.95
White	Males		18,974	98.93		51.83	
.,	Females		17,634	99.14		48.17	
l	Unknown.		59	98.33		·	
1	Total	•	133	.36			
Black	Males		81	.42	<b></b>	60.90	
į	Females		52	.29		39.10	
!	Total		106	.29			
Mulatto	Males		50	.26		47.17	
ł	Females		. 56	.31		52.83	
ſ	Total	6,827	118	.32	1.73		57.86
Indian	Males		73	.38		61.86	
į	Females		45	.25		38.14	
,	Total		2				
	Males		1		•••••		
Unknown color	Females		•				
	Unknown.		1	1.67			
<del></del> _	<del></del>						
(	Total	15,087	239	.65	1.58		63.13
Black and Mulatto	Males		131	.68		54.81	
į	Females		108	.61		45,19	

<sup>.</sup> Includes 28 Asiatics.

TABLE IV .- CONTINUED .- Births by Counties, by Months, and by Sex.

							1	Mon	тнѕ,	1882.					
COUNTIES.	SEX.	YEAE, 1882.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
	[Total	619	35	45	43	49	43	-50	64	68	71	44	50	57	-
many	Males	321	18	25	25	23	23	26	- 84	29	87	20	24	37	
Lapeer	Females	297	17	20	18	26	20	24	30	89	34	24	25	20	
	Unknown	1										****	1		
	(Total	155	5	6	9	17	12	10	17	20	16	16	18	9	
Leelanaw	Males	84	2	1	6	10	8	7	11	10	10	10	5	4	
	Females	71	3	5	3	7	4	3	6	10	6	6	13	5	
	(Total	652	60	51	47	46	34	43	62	67	59	50	62	70	1
Lenawee	Males	324	31	23	21	26	21	14	32	33	29	28	31	35	
	Females	328	29	28	26	20	13	29	30	34	30	22	31	35	1
	(Total	347	20	23	25	42	27	34	33	26	32	30	25	30	
	Males	180	11	10	15	20	12	16	17	14	19	17	13	16	
Livingston	Females	165	9	13	10	22	14	18	16	12	13	13	11	14	
	Unknown	2					1						1		
	[Total	19	1			2	3	3	2	2	3			3	
Mackinac	Males	13	1			9	1	2	1	2	3			1	
	Females	6					2	1	1					2	
	[ Total	665	41	87	55	37	46	60	61	71	69	62	67	59	
Macomb	Males	320	19	14	31	15	22	97	35	27	42	28	35		
	Females	345	22	23	24	22	24	33	26	44	27	34	32	34	
	(Total	542	31	37	45	36	41	57	47	56	50	87	45	60	
	Males	284	20	26	18	17	16	29	26	37	19	20	19	37	
Manistee	Females	257	11	11	. 27	19	25	28	21	19	31	17	25	23	
	Unknown	1											1		
	[Total	28			1	3	3	4	2	5	2		2	6	
Manitou	Males	15			1	1	9	2	1	3			1		
-	Females	13				2	1	2	1	9	2		1	1	
	(Total	1,014	68	70	77	77	107	69	102	101	84	90	81		
	Males	515	33	37	41	39	53	35	51	49	47	46	41		
Marquotto	Females	496	34	33	36	38	54	34	51	52	37	43	40	20	
	Unknown	3	1								-	1			
	[Total	202	15	8	10	16	19	15	18	23	12	18	21	110	
	Males	96	5	4	6	6	9	8	8	14	6	6	12		
Mason	Females	104	10	4	4	9	10	7	10	9	6	12	9		
	Unknown	2				1									
	Canada a de caración					-								-1	

TABLE IV.—Continued.—Births by Counties, by Months, and by Sex.

							3	rkoľ	HS,	1882.					
COUNTIES.	SEX.	YEAR, 1882.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
	Total	405	26	31	35	49	24	36	36	40	87	40	21	30	
Mecosta	Males	218	8	19	17	27	13	23	21	16	21	23	14	16	ı
	Females	187	18	12	18	22	11	13	15	24	16	17	7	14	
	Total	254	21	16	18	23	15	14	22	24	26	17	30	28	
	Males	122	7	8	5	11	6	9	13	13	10	11	13	16	
Menominee	{   Females	129	14	8	13	12	9	5	9	11	16	6	14	12	1
	   Unknown	3											3		
	Total	135	4	11	14	10	12	16	7	14	11	14	11	11	
Midland	Males	64		8	7	3	6	7	2	11	3	6	6	5	
	Females	71	4	3	7	7	6	9	5	•	1 8	8	5	6	ļ
	(Total	62	1	3	4	11	3	4	7	10	5	6	5	3	1
	Males	27	1	2	•	6	1	2	2	3	2	0   3	2	3	
Missaukee	Females	32	_	_	4	5	2	1	5	7	2	3	3	3	
	Unknown	3		1	1	Ů	•	1		•	1		•	••••	
	Total	776	40	61	57	64	58	65	60	75	63	74	78	81	
Monroe	Males	424	28	28	20	33	32	41	32	44	32	40	37	48	
	Females	352	12	33	28	31	26	24	28	31	31		41		
	Total	632	47	32	53	51	44	44	26 54	73	67	34		33	
	1	324	23	15	28	24	19	22				50	56	61	
Montcalm	Males		24		25	27	24	22	24	42	30	81	32	34	•
	Females	307	24	17	20				30	31	37	19	24	27	
	Unknown	; 1	••••	••••			1	•	•	•					
	Total	13	1	2	1	1		1	3	••••	••••	3	1		ļ
•	Males	9	1	••••	1	••••	•		3		•	3	1		
	Females	4		2	•••	1	••••	1	•••			••••			
	Total	888	76	56	72	53	69	71	89	81	88	82	83	88	
Muskegon	Males	444	41	27	88	229	32	38	34	36	42	45	38	44	
	Females	443	35	20	34	24	37	32	35	45	46	37	45	44	
	(Unknown	1	•	•		••••		1	••••	•	••••		••••	•	
	Total	288	10	24	28	26	32	17	25	32	85	16	22	20	1
• •	Males	145	6	13	16	13	15	7	13	18	18	8	15	8	
	[Females	143	4	11	12	13	17	10	12	14	23	8	7	19	1
	Total	570	43	28	34	42	35	39	62	65	72	51	13	46	
Oakland	Males	292	19	13	15	23	17	18	81	38	38	30	29	21	
	Females	275	23	15	19	19	18	21	80	27	34	21	23	25	
	Unknown	3	1						1				1		

TABLE IV.—CONTINUED.—Births by Counties, by Months, and by Sex.

							1	Mon:	riis,	1882.					
COUNTIES.	SEX.	YEAR, 1882.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	::
	Total	283	11	18	34	28	25	15	26	81	29	24	23	24	
Oceana	Males	137	5	6	16	18	12	5	13	14	14	16	8	10	
	Females	146	6	7	18	10	13	10	18	17	15	8	15	14	
	Total	50	1	3		5	2	6	6	5	7	2	7	6	
Ogemaw	Males	23	1	1		3	1	1	4	8	1	1	4	3	l
	   Females	27		2		2	1	5	2	2	6	1	3	3	
	Total	76	4	4	3	6	8	5	8	7	10	9	5	7	
Ontonagon	Males	46	3	4	1	2	6	3	6	3	6	5	2	5	٠.
	   Females	30	1		2	4	2	2	2	4	4	4	3	2	ļ
	Total	311	16	17	21	27	33	29	36	25	28	33	24	22	١
Osceola	Males	170	8	11	11	18	13	16	21	15	17	18	12	15	ļ
	Females	141	8	6	10	14	20	13	15	10	11	15	12	7	١
	Total	14		1		1	2		1	5	1	2		1	١.,
Oscoda	Males	6		1			1		1	2		1			١
	Females	8				1	1			8	1	1		1	١.,
	Total	44	2		1	1	4	5	1	6	5	7	8	4	<b> </b>
Otsego	Males	23				1	2	4		4	8	4	3	2	١
	Females	21	2		1		2	1	1	2	2	3	5	2	١
i	Total	888	65	82	85	75	70	64	79	74	73	73	74	73	
0***	Males	449	29	42	44	36	88	34	41	88	40	37	31	39	١
Ottawa	Females	433	36	40	41	39	32	29	38	84	32	36	43	33	١
	Unknown	6						1	••••	2	1			1	İ
	Total	143	3	9	16	16	13	14	7	9-	9	18	16	13	١
Presque Isle	Males	84		7	7	10	6	11	5	5	4	10	11	8	١
	Females	59	3	2	9	6	7	3	2	4	5	8	5	5	١
	Total	26			5	4	1	3	4	5	2	1		1	
Roscommon	Males	17			3	1		3	3	3	2	1		1	
	Females	9			2	3	1	ļ	1	2				• • • •	
	Total	1,613	116	124	134	131	137	131	161	132	132	135	131	149	١
Saginaw	Males	855	68	70	71	65	76	62	99	67	69	72	63	73	١.,
NAS 186 11 ********	Females	757	48	54	63	66	61	69	62	65	63	63	68	75	
	Unknown	1												1	
	Total	740	44	38	70	78	60	51	61	62	73	76	59	68	j
Sanilac	Males	400	27	20	36	51	31	19	30	30	39	42	37	38	<b> </b>
	Females	340	17	18	34	27	29	32	31	32	34	34	22	30	ļ.,
		<u> </u>					<u> </u>	•							<u>.                                    </u>

TABLE IV .- CONTINUED .- Births by Counties, by Months, and by Sex.

							1	Mon:	rhs,	1882.				<del></del>	
COUNTIES.	SEX.	YEAR, 1882.	January.	February.	March.	April.	May.	June.	July.	Angust.	September.	October.	November.	December.	Unknown.
	Total	44	4	1	8	8	5	4	6	2	4	4	3	4	1
	Males	20			2	1	2	2	4	1	2	3	1	2	
Schoolcraft	Females	23	4	1	1	2	3	2	2	1	2	1	2	2	
	Unknown	1													:1
!	Total	425	16	28	28	29	36	39	32	36	40	41	44	55	.1
	Males	219	12	19	15	15	17	19	9	20	22	23	21	34	<u> </u>
Shiawassee	Females	205	4	15	13	14	19	20	23	16	18	18	23	21	1,1
	Unknown	1		1											ļ
J	Total	907	59	69	76	62	59	69	74	91	90	85	85	87	-1
A	Males	460	84	83	35	29	26	36	35	53	43	42	49	45	<b> </b>
St. Clair	Females	445	25	36	41	33	33	83	38	38	46	43	36	42	.1
	Unknown	2							1	••••	1				<b> </b>
	Total	475	38	30	40	42	38	34	41	41	48	87	40	46	
St. Joseph	Males	240	23	17	26	18	19	16	20	23	24	14	20	20	 
	Females	235	15	13	14	24	19	18	21	18	24	23	20	26	
!	Total	710	47	54	52	59	60	64	63	57	54	72	70	58	
Tuecola	Males	361	23	30	19	31	33	33	81	31	82	40	37	21	
	Females	349	24	24	33	28	27	31	32	26	22	32	33	87	<b> </b> -
	Total	475	28	29	36	26	51	36	88	37	50	49	55	40	ļ
Von Warner	Males	254	16	17	17	14	28	19	20	18	30	24	27	24	
Van Buren	Females	220	12	12	19	12	23	17	18	19	20	25	28	15	ļ
	Unknown	1		<b></b> -										1	
1	Total	598	39	35	37	53	54	35	42	64	68	60	71	40	
Washtenaw	Males	300	22	22	18	27	19	16	22	85	31	29	39	20	
washtenaw	Females	296	16	13	19	26	35	19	20	29	37	81	31	20	
	Unknown	2	1										1		
	Total	5,099	433	409	501	391	365	302	348	404	472	476	457	541	
Wayna	Males	2,703	232	208	280	209	203	156	164	221	268	238	248	276	
Wayne	Females	2,394	201	201	221	182	161	146	184	183	204	238	209	264	
	Unknown	2					1							1	j
1	Total	240	18	12	20	22	30	15	26	22	16	15	17	27	
Wexford	Males	116	6	8	10	13	14	11	11	9	7	7	7	18	
	Females	124	12	4	10	9	16	4	15	13	9	8	10	14	

TABLE VI.—CONTINUED.—Births by Counties, by Sex, and by Color.

	Births.—		Per Ct. of Births	Popula- tion in	Per Ct. of Births	С	OLOR,—	CHILD	ren II	r 1882,	
COUNTIES.	Males to 100 Females.	Sex.	of each Sex to Total of both Sexes.	1880 Represented by Births in 1882.	of each Sex to Popula- tion of same Sex.	Total of all Colors.	White.	Black.	Mu- latto.	In- dian.	Unk.
		Total		6,253	2.48	158	147			8	
Leelanaw	118	Males	54.19	3,388	2.48	84	78	<b> </b> -		6	<b></b> -
	] (	Females.	45.81	2,865	2.48	71	69			2	<b> </b>
	1	Total		48,343	1.35	652	646	4	2		
Lėnawes	99 ₹	Males	49.69	24,281.	1.83	324	321	2	1		ļ
	(	Females .	50.31	24,062	1.36	328	<b>32</b> 5	2	1		
	۱ ۱	Total	·	22,251	1.56	347	347	ļ	<b> </b> -		ļ
Livingston	109	Males	<b>52.17</b>	11,620	1.55	180	180				
	1	Females .	47.83	10,631	1 55	165	165		ļ		<b>-</b>
$\Lambda$		Unknown	<b> </b>	<b></b>		2	2				
`		Total		1,558	1.22	19	16			8	
Mackinac	217	Males	68.42	913	1.42	13	11		 	2	
		Females.	31.58	645	.93	6	5			1	<b></b> -
		Total		81,627	2.10	665	665				
Macomb	93	Males	48.12	16,157	1.98	320	390				
	į i	Females.	51.88	15,470	2.23	845	345				
	1 1	Total		12,532	4.32	542	542		<b></b>		
Manistee	111	Malos	52,50	6,969	4.08	284	284				<b></b>
ABBID 000		Females.	47.50	5,563	4.62	257	257				
	(	Unknown				1	1				
	1	Total		1,334	2.10	28	28				
Manitou	115	Males	53.57	718	2.09	15	15				
		Females.	46.43	616	2.11	13	13				
	!	Total		25,394	3.99	1,014	1,014				
Marquette.	104	Males	50.94	14,760	3.49	515	515	•••••	•		
		Females.	49.06	10,634	4.66	496	496				•
	(	Unknown				3	3				
	١	Total		9,076	2.23	202	200			2	
Mason	92. 1	Males	48.00	5,028	1.91	96	95	•••••		1	
	~~ ]	Females.	52.00	4,048	2.57	104	103	•••••		1	
	(	Unknown				2	2				
	[ [	Total		13,973	2.90	405	399		6		
Mecosta	117	Males	53,83	7,626	2.86	218	216		2		
	lli	Females .	46.17	6,347	2.95	187	183		4	l	

TABLE VI.—Continued.—Births by Counties, by Sex, and by Color.

	Births.—		Per Ct.	Popula-	Per Ct.	C	OLOR,—	CHILD	REN II	r 1889.	
COUNTIES.	fales to 100 Females.	SEX.	Births of each Sex to Total of both Sexes.	tion in 1880 Repre- sented by Births in 1882.	Births of each Sex to Popula- tion of same Sex.	Total of all Colors.	White.	Black.	Mu- latto.	In- dian,	Unk
		Total		11,563	2.20	254	253			1	
Menominee .		Males	52:59	7,710	1.58	122	122				
erchomines.	95	Females.	47.41	3,858	8.35	129	128		<b></b> .	1	
		Unknown				3	8				
		Total		6,893	1.96	135	185				
Kidland	90	Males	47.41	3,780	1.69	64	64				
		Females.	52.59	8,113	2.28	71	71		<b></b>		
	1 1	Total		1,553	8.99	62	63				
Wiene 1		Males	45.76	942	2.87	27	27	<b> </b>			 
Missaukoo	84	Females .	54.24	611	5.24	32	89				 
		Unknown		<b></b>		3	3		 		<b></b>
		Total		33,624	2.31	776	774		2		<b> </b>
<b>Mo</b> ntoo	120	Males	54.64	17,250	2.46	424	422		2		<b> </b>
	;	Females.	<b>45.36</b>	16,374	2.15	352	352		<b> </b>	<b></b>	<b>.</b> .
	1	Total		83,148	1.91	632	629		8		
<b>-</b>	!	Males	51,35	18,321	1.77	324	323		1		l
Montcalm	106	Females.	48.65	14,827	2.07	307	305		2		<b></b>
		Unknown				1	1				
		Total				13	13		<u>                                     </u>		<b>.</b>
Montmorency	225	Males	69.23			9	9		l		İ
		Females.	80.77			4	4				
		Total		26,586	8.34	888	896	2			
		Males	50.06	14,784	8.00	444	443	1			
Muskegen	100	Females.	49.94	11,802	8.77	443	442	1			
•		Unknown				1	1				
		Total	 	14,688	1.96	288	288				
Newaygo	101	Males	50.34	8,376	1.73	145	145				
		Females .	49.66	6,312	2.27	143	143				
		Total		41,537	1.37	570	568	1	1	,	
_		Males	51.50	21,327	1.37	292	291	ļ	1		
Oakland	106	Females.	48.50	20,210	1.36	275	274	1			
		Unknown	20.00			3	3	_ ^			
	] ]	(Total		11,699	2.42	283	278	1		4	
Осеапа	94	Males	48.41	6,444	2.13	137	134	1	•••••	2	••••
		Females.	51.59	5,255	2.78	146	144	1	******	2	*****
	l '	(remaies.	91.09	3,230	2.78	146	144			3	

TABLE VI.—CONTINUED.—Births by Counties, by Sex, and by Color.

			Per Ct.	Popula-	Per Ct. of Births	(	COLOR,	-CHILI	DEPEN 1	n 1882	
COUNTIES.	Births,— Males to 100 Females.	SEX.	Births of each Sex to Total of both Sexes.	tion in 1880 Repre- sented by Births in 1882.	of each Sex to l'opula- tion of same Sex.	Total of all Colors.	White.	Black.	Mu- latto.	In- dian.	Unk.
		Total		1,914	2 61	. 50	50				
Ogemaw	85 {	Males	46,00	1,168	1.97	23	23				
	{	Females.	54.00	746	3.62	27	27				
	۱ . ر	Total		2,565	2.96	76	76				ļ
Ontonagon	153	Males	60.53	1,335	3.45	46	46				<b> </b> -
	l	Females.	89.47	1,230	2.44	30	30				ļ
	(	Total		10,777	2.89	311	310		1		
Osceola	121 {	Males	54.66	6,015	2.83	170	169	<b></b> .	1	ļ. <b>.</b>	
	l	Females.	45.34	4,762	2.96	141	141	ļ	ļ	ļ	
	ſ	Total	••••	467	8.00	14	18	1			ļ
Oscoda	75	Males	42.86	291	2.06	6	5	1		<b> </b>	<b> </b>
	l	Females.	57.14	176	4.55	8	8				ļ
	ſ	Total		1,974	2.23	44	44			ļ	ļ
Otsego	110	Males	52.27	1,137	2.02	23	23		i		
	į	Females.	47.73	837	2.51	21	21		ļ		
	ſ	Total	•	33,126	2.68	888	887	1			
Ottawa	104	Males	50.91	17,472	2.57	449	448	1			
· · · · · · · · · · · · · · · · · · ·		Females	49.09	15,654	2.77	433	433				<b> </b>
	i	Unknown				6	6				
	ſ	Total	•••••	3,113	4.59	143	143			ļ	
Presque lale	142	Males	58.74	1,701	4.94	84	84	•	•••••		
	į	Females	41.26	1,412	4.18	59	59				
	ſ	Total		1,459	1.78	26	26	<b></b> -			
Roscommon.	189	Males	65.38	1,096	1 55	17	17				ļ
	į	Females	34.62	363	2.48	9	9	•••••	•		
	ſ	Total		59,095	2.73	1,613	1,607	2	1	3	
Baginaw	113 <	Males	53.04	31,803	2.69	855	853	•	1	1	<b></b>
DMB124 W		Females	46.96	27,292	2.77	757	753	2		2	
	į	Unknown	•••••		••••	1	1				
	{	Total		26,341	2.81	740	740				
Sanilac	118 -	Males	54.05	14,023	2.85	400	400			•	
	į	Females	45.95	12,318	2.76	340	340			•	
	ſ	Total	•	1,305	3.37	44	44				
Schooleraft.	87	Males	46.51	923	2.17	20	20			<b>-</b> -	
CONCOLCIAIO.	8, 1	Females	53.49	382	6.02	23	23				
		Unknown				1	1	1			1

TABLE VI.—CONTINUED.—Births by Counties, by Sex, and by Color.

	Births,—		Per Ct. of Births	Popula- tion in	Per Ct. of Births		OLOB,-	CHILD	REN II	1882.	
COUNTIES.	Males to 100 Females,	SEX.	of each Sex to Total of both Sexes.	1890 Represented by Births in 1892.	of each Sex to Popula- tion of same Sex.	Total of all Colors.	White.	Black.	Mu- latto.	In- dian.	Unk.
	1	Total		27,059	1.57	425	425				
		Males	51.65	14,248	1.54	219	219				
Shiawassee.	107	Females	48.35	12,811	1.60	205	205				<b></b>
		Unknown				1	1			<b></b>	
		Total		46,197	1.96	907	905	2		<b></b> .	
		Males	50.83	23,922	1.92	480	459	1		<b> </b>	
St. Clair	103	Females	49.17	22,275	2,00	445	444	1			
	(	Unknown				2	2		<b></b>		
	1	Total		26,626	1.78	475	472		3	<b> </b>	•
St. Joseph	102	Males	50.53	13,516	1.78	240	239		1		
	ł	Females.	49.47	13,110	1.79	235	233		2		
	ſ	Total		25,738	2.76	710	706		2	2	
Tuscols	103	Males	50.85	13,644	2.65	361	359	•	2		
	{	Females	49.15	12,094	2.89	349	347	<b></b>		2	
	· (	Total		80,807	1.54	475	464	5	4	2	
Van Buren	115	Males	53.59	15,757	161	254	249	4	. <b></b>	1	
Van Duren.	]	Females	46 41	15,050	1.46	220	214	1	4	1	
	į	Unknown				1	1				•
	ſ	Total		41,848	1.43	598	579	16	. 3		
Washtenaw.	101	Males	50.34	21,250	1.41	300	290	9	1	•	
W 45410000 W.		Females.	49.86	20,598	1.44	296	287	7	2	•••••	
	į	Unknown		•••••		2	2	•		•	•
	ſ	Total		166,444	3.06	5,099	5,031	43	25		
Wayne	113	Males	53.03	82,917	3.26	2,703	2,661	31	11	• • • • • •	•
,	i	Females	46.97	83,527	2.87	2,394	2.368	12	14	••	
	į	Unknown	•••••		•••••	2	2			•••••	•••••
	{	Total	••••••	6,815	3.52	240	239		1	•••••	•••••
Wexford	93 {	Males	48.83	3,903	2.97	116	116				
l	į	Females	51.67	2,912	4.26	124	123		1		

TABLE VII.—Exhibiting, by Sex, by Number, and by Per Cent of Total, the Parent-Nativity of Children Born in Michigan during the Year 1882, according to the Returns.

NATIVITY OF PARENTS			Tor	AL BIE	RTHS,-1	882.		
OF		Num	BEE.		P	ER CENT	OF TOTAL	
CHILDREN BORN, 1882.	Total.	Males,	Females.	Unk.	Total,	Males.	Females.	Unk.
All Nativities	37,026	19,179	17,787	60	100.00	100.00	100.00	100,00
Both Parents Native-born	16,169	8,382	7,769	18	43.67	43.70	43.68	30.00
Both Parents Foreign-born	13,173	6,877	6,278	18	35.58	35.86	35,29	30.00
Foreign Father and Native Mother	4,357	2,210	2,143	4	11.77	11.52	12.05	6.67
Foreign Mother and Native Father	2,213	1,131	1,078	4	5.98	5.90	6.06	6,67
Unknown Mother, Father Native	202	110	90	2	.55	.57	.51	3.33
Unknown Mother, Father Foreign.	88	42	45	1	,24	.22	.25	1.67
Unknown Father, Mother Native	206	94	110	2	.55	.49	.62	3.3
Unknown Father, Mother Foreign.	75	31	44		.20	.16	,25	
Both Unknown	543	302	230	11	1.47	1.58	1.29	18.3
One or Both Native	23,147	11,927	11,190	30	62,52	62.19	62.91	50.00
One or Both Foreign	19,906	10,291	9,588	27	53.76	53.66	53.90	45.0

### PARENT-NATIVITY.

Table VII. shows the number and proportion of births in Michigan in 1882, by sex and parent-nativity. It will be seen that the number of children born of native-born parents was 43.67 per cent of the whole number, while the per cent of births of purely foreign parentage was 35.58 of the whole number. This indicates a decrease of 2.11 per cent from the percentage of native-born parents in 1881, and a decrease of 2.40 per cent from the percentage in 1880. It also indicates an increase of 2.31 per cent over the percentage of foreign-born parents in 1881, and an increase of 1.66 per cent over the percentage in 1880. The average per cent of children who were born of native-born parents for the fourteen years 1869–1882 is 45.59, and the average per cent of children born of foreign-born parents for the same period of years is 33.78 per cent.

When a comparison is made between native and foreign parents, it should be remembered that the term "Native" is less definite than the term "Foreign" because the former class includes all who were born in the United States, and must, therefore, comprise a considerable number whose parents

were foreign-born.

In Exhibit I' may be seen the parent-nativity of children born in Michigan for each of the years 1875-1882. While the proportion of children of native-born parents for the year 1882 is less than usual, and 1.92 per cent less than the average for fourteen years; in the foreign and in both classes of mixed parentage the percentage for 1882 is larger than the average for fourteen years. The percentage of children with "Foreign Father and Native Mother" is about double that of the opposite class, and has increased almost constantly from 1869 to 1882, inclusive. The proportion of births whose parent-nativity was not stated in the returns is less in 1882 than in 1881.

EXHIBIT F.—Parent-Nativity of Children returned as having been Born in Michigan during each of the Years 1875, inclusive.

	1875,	20	1876.	6.	1877.	7.	1878.	œ.	1870.	70.	1880.	30.	1881.	11	18	1882,
NATIVITY OF PARENTS OF CHILDREN BORN.	Num- ber.	Per Cent of Total.	Num- ber,	Per Cent of Total.	Num- ber.	Per Cent of Total										
All Nativities.	31,958	100.00	34,235	100,00	33,395	100.00	35,162	100.00	34,122	100.00	35,323	100.00	34,749	100.00	37,026	100.00
Both Native-born	14,226	44.51	15,551	45,42	15,270	45.73	16,323	46.42	15,864	46.49	16,274	46.07	15,907	45.78	16,169	43.67
Both Foreign-born	11,120	34.80	106,11	34.76	11,557	34.61	11,992	34.10	11,369	33.32	11,982	33,92	11,560	33.27	13,173	35.58
Foreign Father and Native Mother	3,246	10,16	3,587	10.48	3,635	10.88	3,861	10.98	3,956	11.59	3,967	11.23	4,078	11.74	4,357	11.77
Foreign Mother and Native Father	1,727	5.40	1,868	5,46	1,948	5.83	1,956	5.56	2,039	5.98	890'5	5.83	2,075	5.97	2,213	5.97
One or Both Unknown	1,639	5.13	1,328	3.88	982	2.95	1,030	2.93	894	2.62	1,042	2.95	1,129	3.25	1,114	3.01
One or Both Parents Native	19,199	60.08	21,006	61.36	20,853	62.44	22,140	62,97	21,859	64.06	22,630	64.07	22,060	63.48	22,730	61.41
( Native	16,309	51.03	17,703	51.71	17,392	52.08	18,489	52.58	18,045	52.88	18,468	52.28	18,170	52.29	18,584	50.19
Father Foreign	14,812	46.35	15,721	45,93	15,318	45.85	15,981	45.45	15,397	45.12	16,017	45.34	15,803	45,48	17,618	47.58
Unknown	837	2,62	811	2,37	069	2.07	695	1.97	089	1.39	838	2.37	776	2.23	824	2.23
Native	17,686	55.34	19,347	56,51	19,098	57.19	20,389	57.99	20,024	58.68	20,436	57.55	20,225	58.20	20,732	55.99
Mother Foreign	12,961	40.56	13,858	40.46	13,599	40.72	14,032	30.91	13,492	30.54	14,115	39.96	13,765	30.61	15,461	41.76
Unknown	1,311	4,10	1,035	3.05	809	2.00	741	2,11	909	1.78	773	2.19	739	2.18	833	9.95

a Excluding cases where nativity of either parent is unknown.

In Table VIII. may be seen the nativity of the parents of children born in Michigan in each county of the State during the year 1882. The number of births, the nativity of whose parents was not stated, was 543, of which Jackson county has 20, Saginaw 72, and Wayne 186.

TABLE VIII.—Exhibiting, for the State and Counties of Michigan, by Sex, the Total Number of Children Born during the Year 1882, and the Parent-Nativity of such Children, so far as stated in the Returns. (Still-births included.)

92	1	1	N.	ATIVITY	OF PAR	ENTS O	г Сип	DREN	BORN	,-1882	,
STATE	SEX.	Children Born,	Both	Both	Foreign Father	Foreign Mother	U	THER NK.	U	HRB HK.	Both Unknown.
COUNTIES.		1882.	Native- born.		and Native	and Native	FAI	her.	Мо	ther.	l B
			born.	born.	Mother.		Na- tive.	For- eign.	Na- tive.	For- eign.	Both
	Total	37,026	16,169	13,173	4,357	2,213	202	88	206	75	543
State	Males	19,179	8,382	6,877	2,210	1,131	110	42	94	31	302
State	Females	17,787	7,769	6,278	2,143	1,078	90	45	110	44	230
i	Unknown.	60	18	18	4	4	2	1	2		11
	Total	17	2	11	3	1					
Alcona	Males	10	2	8	<b> </b>				ļ		
1	Females	7		3	3	1					
i	Total	777	490	150	94	34	1		5	1	2
	Males	365	235	69	42	16	1		1		1
Allegan	Females	410	255	80	52	18			4	1	
	Unknown.	2		1							1
ſ	Total	352	42	258	32	20					
	Males	169	16	126	18	9					
Alpena	Females	182	25	132	14	11		 		! 	
Į.	Unknown.	1	1								
(	Total	146	67	48	21	7			2		1
Antrim	Males	76	33	23	12	5			2		1
{	Females	70	34	25	9	2					
ſ	Total	63	26	29	6	2					
Baraga	Males	30	11	15	2	2					
{	Fomales	33	15	14	4						
ſ	Total	430	338	27	4.5	13	1	2	3	•	1
Barry	Males	215	168	15	23	7		1	1		
{	Females	215	170	12	22	6	1	1	2		1
			!						1		

<sup>•</sup> For counties and townships from which no returns were received, see Table xxi.

TABLE VIII.—CONTINUED.—Births by Counties, Parent-Nativity, and Sex.

			N	ATIVITY	OF PAR	ENTS O					
COUNTIES.	SEX.	Children Born,	Both	Both	Foreign Father	Foreign Mother	U	NE.		HRR NK.	Both Unknown.
		1882.	Native- Born.	Foreign- Born.	and Native Mother.	Native Father.	Na-	For-	Na-	For-	Ta D
							tive.	eign.	tive.	olgn.	Ř
	Total	1,510	314	845	210	135	1	<b></b>			5
Bay	Males	818	162	472	104	78	1				1
	Females	692	152	373	106	57			<b></b>		4
	Total	103	53	23	13	4	3	3	2		2
Benzie	Males	49	24	12	6	2	2		1		2
	Females	54	29	11	7	2	1	3	1	ļ	
	Total	664	443	96	63	17	11	8	6		20
Danie.	Males	362	244	51	35	13	6	2	2		9
Berrien	Females	297	198	43	28	4	5	6	4		9
	Unknown.	5	1	2					<b> </b> -		2
	Total	400	322	45	18	11	2		1		1
Branch	Males	217	177	23	9	5	2		1		
	Females	183	145	22	9	6					1
	Total	571	422	63	50	24	2	4	5		1
Calhoun	Males	309	222	38	31	13	1	2	2		
	Females	262	200	25	19	11	1	2	3		1
	Total	378	314	16	25	10	2		5		6
Cass	Males	182	148	9	16	4	ļ	<b> </b>	1		4
	   Females	196	166	7	9	6	2		4		2
	Total	187	80	51	27	17	1	2	3		6
<b>.</b>	Males	104	45	34	12	7	1			<b> </b>	5
Charlevoix	Females	80	33	17	14	10		2	3	<u> </u>	ı
,	Unknown.	3	2		1				<b></b>		
1	Total	232	61	105	39	22	1		1		3
Cheboygan	Males	116	32	61	18	12			1		2
	Females	116	29	54	21	10	1				1
1	Total	126	64	37	11	6			3	2	3
Chippews	Males	63	31	18	4	4			2	1	3
	Females	63	33	19	7	2			1	1	<i>.</i>
	Total	101	52	24	8	11	1	2			3
(II)	Males	56	26	10	7	8	1	1			3
Clare	Females	42	24	13	1	3		1			
1	Unknown.	3	2	1					•		
	Total	443	285	56	70	14	7	3	5		4
Clinton	Males	224	142	28	35	8	4	1	3		3
	Females	219	143	28	35	6	3	1	2		1
							-	-	-	1	

TABLE VIII.—CONTINUED.—Births by Counties, Parent-Nativity, and Sex.

		ara :	N	ATIVITY	OF PAI	RENTS O		HER		,—1882. HER	
COUNTIES.	SEX.	Children Born,	Both	Both	Foreign Father	Foreign Mother	U	NK.	U	NK.	Both Unknown.
OUUNIIIS.	UBA.	1882.	Native- Born.	Foreign Born.	and Native	and Native	Fat	her.	Mot	her.	Unk
				30.11	Mother.	Father.	Na- tive.	For- eign.	Na- tive.	For- eign,	Both
	Total	43	25	8	1	2			1		6
0	Males	23	12	6		2					3
Crawford {	Females	19	13	2					1		3
į	Unknown.	1			1						
1	Total	141	29	88	14	6		2	1		1
Delta	Males	64	12	42	6	1		2	1		
{	Females	77	17	46	8	5					1
!	Total	476	412	15	25	10	8	2	1		3
	Males	256	221	7	16	3	6		1		2
Eaton {	Females	219	191	8	9	7	2	2			
Į.	Unknown.	1									1
9	Total	142	87	18	18	12	4		2	1	
Emmet	Males	74	46	9	11	5			2	1	
(	Females	68	41	0	7	7	4				
!	Total	668	422	89	92	61			3		1
Genesec	Males	847	215	46	48	36			1		1
į	Females	321	207	43	44	25			2		
!	Total	17	7	5	1	3		1			
010.4	Males	8	4	3		1					
Gladwin} 	Females	8	3	2	1	2					
į	Unknown.	1						1			
1	Total	107	64	19	17	G					1
Gd. Traverse	Males	51	33	5	9	3					1
{	Females	56	31	14	8	3					
ſ	Total	483	375	29	39	32			1		7
Gratiot	Males	211	179	13	24	22			1		5
Į.	Females	239	196	16	15	10				*****	2
!	Total	469	413	16	26	9	1		3		1
Hillsdale	Males	246	219	7	13	4	1		1		1
į	Females	223	194	9	13	5			2		
9	Total	828	62	644	112	34				2	
Houghton	Males	459	41	344	57	14					3
į	Females	399	21	300	55.	20				2	1
(	Total	681	83	423	101	51	1	7	2	10	:
Huron	Males	362	48	223	48	31		4	1	7	
	Females	319	35	200	53	20	1	3	1	3	

TABLE VIII.—CONTINUED.—Births by Counties, Parent-Nativity, and Sex.

counties.		i .									
COUNTIES.		Children Born,			Foreign	Foreign		THER NK.		THER NK.	DOW B.
	SEX.	1882.	Both Native- Born.	Both Foreign- Born.	Father and Native	Mother and Native		her.		ther.	Both Unknown.
					Mother.	Father.	Na- tive.	For- eign.	Na- tive.	For-	Boti
	Total	565	403	73	53	26	4		2		4
lngham	Males	269	195	29	27	13	3		1	•••••	
į	Females	296	208	44	26	13	1		1		8
	Total	545	381	53	71	33	1	3		1	2
Ionia	Malea	316	223	32	38	20	1	1	<b></b>		4
ĺ	Females	229	158	21	33	13	 	2		1	1
!	Total	191	27	112	22	21		2	1		6
Iosco	Males	109	14	65	13	18		ļ		ļ 	4
	Females	82	13	47	9	8		2	1		:2
9	Total	235	182	88	33	19	1		4	1	12
Imbella	Males	169	93	40	18	10	1		2		5
186.00118	Females	164	89	43	15	9			2	1	. 2
į	Unknown.	2				•					2
Isle Royal											
ļ	Total	742	457	140	70	48	2		4	1	90
Mahaan	Males	370	225	63	40	26	1		2	1	`12
Jackson	Females	370	231	76	30	22	1		2		8
{	Unknown.	2	1	1							
ſ	Total	550	348	105	55	26	1	1	9		:5
Falan	Males	253	175	38	24	10			3		3
Kalamazoo	Females	296	172	67	31	16	1	1	6		-2
{	Unknown.	1	1								
(	Total	77	35	15	11	7			1		8
Kalkaska	Males	39	15	10	5	3					6
-	Females	38	20	5	6	4			1		2
ſ	Total	1,620	646	628	208	87	28	2	9	3	14
P	Males	853	352	326	95	47	28	1	5	1	.8
Kent	Females	766	294	302	107	40	5	1	4	2	11
{	Unknown.	1			1						
ſ	Total	289	28	217	37	3		2	2		
<b>V</b> .	Males	145	12	109	20	3		1			
Keweenaw	Females	143	15	108	17			1	2		
l	Unknown.	1	1								

<sup>.</sup> No returns from county clerk.

TABLE VIII.—CONTINUED.—Births by Counties, Parent-Nativity, and Sex.

			N	ATIVITY	OF PAI	RENTS O	F CHI	LDREN	Born	.—1882.	
		Children			Foreign	Foreign	Mot U:	HER		HEB IK.	e e
COUNTIES.	SEX.	Born, 1882.	Both Native-	Both Foreign-	Father and	Mother and	Fat	her.	Mot	her.	Jaka
			Born.	Born.	Native Mother.	Native Father.	Na- tive.	For- eign.	Na- tive.	For- oign.	Both Unknown.
	Total	100	49	26	12	12					1
Lake	Males	53	26	14	8	4	<b> </b> -		•		1
į	Females	47	- 23	12	4	8					
1	Total	619	281	168	95	71		1	1		9
Lapser	Males	321	145	89	53	33					1
Dapoer	Females	297	136	78	42	38		1	1		1
į	Unknown.	1		1		<b> </b>					
. !	Total	155	48	75	2:3	9		1			
Leelanaw	Males	84	27	42	12	8		ļ			
į	Females	71	21	33	10	6	i	1			
1	Total	652	437	91	49	26	31	7	7	1	3
Lenawee	Males	324	215	45	93	17	13	5	4		9
ł	Females	328	222	46	26	9	18	2	8	1	1
	Total	347	268	28	34	13	1		2		1
Y industria	Males	180	136	14	22	8					
Livingston	Females	165	131	14	12	4	1	<b></b>	2		1
į	Unknown.	2	1			1					<b></b>
!	Total	19	10	7	1			ļ			1
Mackinac	Malos	13	6	6	<b></b>						1
i	Females	6	4	1	1						
!	Total	665	283	200	113	58	8	2	ï	1	
Macomb	Males	320	137	95	56	26	3	2.	1		<b> </b>
i	Females	345	145	105	57	32	5			1	
(	Total	542	115	353	48	23			1		9
	Males	284	58	195	18	11					9
Manisteo	Females	257	57	157	30	12		ļ	1		 
į	Unknown.	1		1							
1	Total	28	6	13	8	1					
Manitou	Males	15	3	o ·	2	1					
1	Females	13	3	4	6						 
(	Total	1,014	88	787	94	20		3	3	6	4
	Males	515	44	415	36	13			1	3	3
Marquette	Females	496	44	360	58	16		3	2	3	1
	Unknown.	3		3							
		1	· · · · · · · · · · · · · · · · · · ·					1		1	

TABLE VIII.—CONTINUED.—Births by Counties, Parent-Nativity, and Sex.

	ļ	Children					Mot Uz	HER (K.		HRB	Ė
OUNTIES.	SEX.	Born, 1882,	Both Nutive-	Both Foreign-	Foreign Father and	Foreign Mother and	Fat			her,	Ä
			Born.	Born.	Native Mother.	Native Father	Na- tive.	For- eign.	Na-	For-	Both Unknown.
	Total	202	73	82	27	12			1		
	Males	96	36	39	10	7			1		
200	Females	104	36	43	17	5	<b> </b>				
	Unknown.	2	1								
	Total	405	191	127	55	25	1	2	1	<b> </b> -	
ecosta	Males	218	103	67	32 ·	18		1	ļ		1
	Females	187	88	60	23	12	1	1	1	ļ	
	Total	254	30	168	44	9					
	Males	122	12	82	23	3					
leņomiņeo	Females	129	18	83	21	6					
	Unknown.	3		3				<b> </b> -			<b>}</b>
	Total	135	62	37	13	14	3	<b> </b> -	1		
lidland	Males	64	33	16	10	3	1	<b> </b>			
	Females	71	29	21	3	11	2		1		
	Total	. 62	14	30	14	4		•••••			
<b>.</b>	Males	27	7	14	6	 					<b> </b>
Missaukce	Females	32	5	15	8	4					<b> </b>
	Unknown.	3	2	1							<b> </b> .
	Total	776	523	111	100	26			4		1
Mearoe	Males	424	282	65	62	11			3		
	Females	352	241	46	47	15			1		
	Total	632	379	121	75	39	4		4	4	İ
<b>W</b>	Males	324	207	61	30	15	2		1	1	
Montcalm	Females	307	172	57	45	23	2		3	3	
	Unknown.	1				1					
	Total	13	3	6	2	2			 		<b> </b>
Montmorency	Males	9	2	3	2	2					<b> </b>
	Females	4	1	3							
	Total	888	228	473	104	60	2	4	6	1	,
¥	Males	444	120	232	47	29	1	4	2		1
Nuskegon	Females	443	108	241	57	31	1		3	1	1
	Unknowu.	1							1		<b> </b>
	Total	288	151	62	43	19			3	<b>.</b> .	,
Newsygo	Malos	145	81	30	19	12					
	Females	143	70	32	21	7			3		

TABLE VIII.—Continued.—Births by Counties, Parent-Nativity, and Sex.

			N	ATIVITY	OF PAR	ENTS O	CHII	DREN	BORN,	—1882.	
		Children			Foreign	Foreign		HER NK.	FAT	HER NK.	OWE.
COUNTIES.	SEX.	Born, 1882.	Both Native-	Both Foreign-	Father and	Mother	Fat	her.	Mot	her.	Jukn
			Born.	Born.	Native Mother.	Native Father.	Na- tive.	For- eign.	Na- tive.	For-	Both Unknown.
1	Total	570	360	72	60	87	30	4	2		5
	Males	292	199	33	21	16	15	3	1		4
Oakland	Females	273	160	39	39	21	13	1	1		1
	Unknown.	3	1				2				
1	Total	283	188	42	25	20	4	1	2		1
Oceana	Males	137	92	21	9	13	1	1			
	Females	146	96	21	16	7	3		2		1
1	Total	50	21	16	7	3		1			2
Ogemaw	Males	23	10	7	3	3					
	Females	27	11	9	4			1			2
-> 1	Total	76	21	36	13	2				1	3
Ontenagon	Males	46	7	23	10	2				1	3
	Females	30	14	13	3						
1	Total	311	160	84	39	25					3
Osceola	Males	170	90	45	19	14					2
	Females	141	70	39	20	11					1
(	Total	14	9	4		1					
Oscoda	Males	6	4	2							
	Females	8	5	2		1					
1	Total	44	18	12	4			1			9
Otsego	Males	23	9	4	3			1			6
1	Females	21	9	8	1						3
1	Total	888	374	341	109	49	1	2	3	1	8
2.0	Males	449	189	172	57	27		1		1	2
Ottawa	Females	433	184	167	51	22	1	1	2		5
(	Unknown.	6	1	2	1				1		1
1	Total	143	8	130	4	1					
Presque Isle	Males	84	5	78	1						
	Females	59	3	52	3	1					
1	Total	26	11	12	1	1			1		
Roscommon	Males	17	8	6	1	1			1		
	Females	9	3	6							
1	Total	1,613	479	685	242	124	7	1	2	1	72
	Males	855	250	352	134	68	3	1		1	46
Saginaw	Females	737	- 229	333	108	56	4		2		25
	Unknown.	1									1

ABLE VIII.—Continued.—Births by Counties, Parent-Nativity, and Sex.

			N.	ATIVITY	OF PAR	ENTS O	Р Сні	DREN	BORN	,—1882.	
OUNTIES.	SEX.	Children Born,	Both	Both	Foreign Father	Foreign Mother	Mot	K	U	HER KK.	nown.
OUNTIES.	SEA.	1882.	Native- Born.	Foreign- Born.	and Native Mother.	and Native Father.	Fat Na-	For-	Mot Na-	For	Both Unknown.
							tive.	eign.	tive.	eign.	<u> </u>
ſ	Total	740	80	464	126	63			2	2	3
nilac	Males	400	34	254	71	35			2	1	3
į	Females	840	46	210	55	28			••	1	
1	Total	44	15	17	5	3	•			1	3
hoolcraft	Males	20	7	8	3	1				1	
	Females	23	8	9	2	2	·		•		2
į	Unknown.	1									1
1	Total	424	287	67	45	19	3	1		<b></b>	2
)iawassec {	Males	219	158	30	20	7	2	1			1
	Females	205	129	37	25	12	1				1
į	Unknown.	1	•••••	1		<b></b>	•				
1	Total	907	280	332	160	108	4	2	5	2	5
t. Olair	Males	460	138	184	75	51	2	1	4		5
	Females	445	141	147	94	57	2	1	1	2	
ì	Unknown.	3	1	1							
1	Total	475	350	75	27	14	2	•	1		6
Bt. Joseph	Males	240	166	46	17	5	2		1		3
(	Females	235	184	29	10	9					3
	Total	710	307	206	101	84	2	1	5		4
Tuscola	Males	<b>3</b> 61	153	110	54	35	1	1	1		1
į	Females	349	149	96	47	49	1	<b></b>	4		8
	Total	475	363	24	39	26	6		10	1	6
Van Buren	Males	254	190	19	22	12	4		4		3
	Females	220	172	5	17	14	2		6	1	3
(	Unknown.	1	1	<b> </b>		<b></b>					
!	Total	598	314	145	73	43	5	2	4	4	8
Washtenaw	Males	300	151	78	34	25	3	1	2		6
	Females	296	162	67	39	17	2	1	2	4	2
l	Unknown.	2	1			1	·				
	Total	5,099	1,302	2,701	547	283	1	5	47	27	186
Wayne	Males	2,703	721	1,412	292	140	1	2	27	11	97
	Females	2,394	581	1,289	255	142		3	20	16	88
i	Unknown.	2		····		1			•••••		1
	Total	240	123	78	23	11	3	2			
Wexford	Males	116	64	38	7	5	1	1			
1	Females	124	59	40	16	6	2	1			

#### TWIN CHILDREN, 1882.

There were 860 twin children returned for the year 1882, of which number 445 were males and 415 were females, or there were 107 males to every 100 females. The number of pairs of twins is 430, which is the largest number ever returned as having been born in this State. The order of the years 1870-1882, those having the largest number of births of twins first, is as follows: 1882, 430; 1876, 428; 1878, 427; 1873, 420; 1874, 408; 1879, 402; 1881, 372; 1875, 370; 1877, 367; 1880, 358; 1872, 342; 1870, 339; 1871, 298. Table IX. shows the number of pairs of twins, and the number of twin children, by months, for the year 1882. The months of October and July head the list with the largest number of twin births, and the months of January and February are at the foot with the smallest number. During the year 1882, one plural birth occurred to every 84 single births.

TABLE IX.—Exhibiting, by Sex, the Number of Pairs of Twins, and the Number of Twin Children Returned as having been Born in Michigan during the Year 1882, by Mouths Arranged in Order by Number; also, by Pairs and by Individuals, the Number of Males to 100 Females.

YK	EAR AND	NUMBER	of Twi	Cuildr	en, 1892.		Number	OF PAIR	s of Tw	ns, 1882.	
	1882.	Total.	Males.	Fe- males.	Males to 100 Fe- males.	Total.	Males.	Fc- males.	One of each Sex.	Males to 100 One of each Sex.	Males to 100 Fe- males,
Year,	1882	860	445	415	107	430	135	120	175	77	113
a.	October	102	52	50	104	51	14	13	24	58	106
H 0 H	July	90	52	38	137	45	14	7	24	58	200
HAG R	September.	82	37	45	82	41	10	14	17	59	71
More than the Av. No. of Twins.	March	80	47	33	142	40	16	9	15	107	178
Av. p	er month	72	37	35	106	36	11	10	15	73	110
	August	70	31	39	80	35	9	13	13	69	60
ė.	April	68	34	34	100	34	11	11	12	92	100
<u>.</u>	May	68	36	32	113	34	10	8	16	63	125
vins	June	64	28	36	78	32	9	13	10	90	69
g H	November	64	32	32	100	32	11	11	10	110	100
Less than the Av. No. of Twins.	December.	60	25	35	71	30	6	11	13	46	55
Les	January	56	40	16	250	28	15	3	10	150	<b>50</b> 0
	February	56	31	25	124	23	10	7	11	91	143

The parent-nativity of twin births may be studied in Table X., which shows that the largest proportion of pairs of twins was born of parents who were both foreign-born. Comparing this table with Table VII. it will be seen that the proportion of foreign-born parents is greater for twins than for total births, and of native-born parents the proportion is smaller for twins than for all

children born. This fact indicates that more twins are born of foreign parents than of native-born parents, and as this evidence has been the same for a number of years it seems to be conclusive. Again, comparing Tables VII. and XI., it appears that the proportion of mixed parent-nativity was a little greater for all children born than for twins.

The nativity and color of mothers of twin children for each of the years 1880, 1881, and 1882 may be seen in Exhibit 5. The evidence here indicates that the largest proportion of twins is among the foreign-born mothers, and also among the Black and Mulatto mothers.

The parent-nativity of twin children, by counties, may be found in Table XII.

TABLE X.—Parent-Nativity of Twins Returned as having been Born in Michigan during the Year 1882.

			PAIR	RS OF T	WINB, 18	82.		
NATIVITY OF PARENTS OF TWINS, 1882.		NUM	BER.		NAT	INT OF I	TOTAL	
	Total.	Males.	Fe- males.	One of each	Total.	Males.	Fe- males.	One of each.
All Nativities	430	135	120	175	100.00	100.00	100.00	100.00
Both Native-born	169	50	47	72	39.30	37.04	39.17	41,14
Both Foreign-born	173	56	47	70	40.28	4148	39.17	40.00
Foreign Father and Native Mother	49	14	16	19	11.40	10.37	13.33	10.86
Foreign Mother and Native Father	26	11	8	7	6.04	8.15	6.67	4.00
Unknown Mother, Father Native	2	1		1	.47	.74		.57
Unknown Mother, Father Foreign			] 					<b> </b> -
Unknown Pather, Mother Native	2		1	1	.47	<b> </b>	.83	.57
Unknown Father, Mother Foreign				 		<b> </b>		<b></b> .
Both Unknown	9	3	1	5	2.09	2.22	.83	2.80
One or Both Native	248	76	72	100	57.67	56.29	60.00	57.14
One or Both Foreign	248	81	71	96	57.67	60.00	59.17	54.80

EXHIBIT 5.—By Nativity and by Color of Mothers, the Number and during the Years 1875

		1875.			1876.			1877.	
NATIVITY AND COLOR OF MOTHERS OF TWINS, 1875-1882.	No. of Pairs of Twins,	Whole Number of Mothers, in- cluding those of Twins.	Per Ct. of Births of Twins to all Mothers,	No. of Pairs of Twins.	Whole Number of Mothers, in- cluding those of Twins.	Per Ct. of Births of Twins to all Mothers.	No. of Pairs of Twins.	Whole Number of Mothers, in- cluding those of Twins.	Per Ct. of Births of Twins to all Mothers.
Mothers of all Colors and all Nativities.	370	31,586	1.17	428	33,791	1.27	367	33,028	1.11
All Native-born Mothers	174	17,510	,99	249	19,086	1.30	207	18,891	1.10
All Foreign-born Mothers	184	12,777	1.44	170	13,679	1.24	150	13,449	1.19
Mothers of Unknown Nativities	12	1,299	.92	9	1,026	.88	10	688	1.45
White	365	31,147	1.17	424	33,273	127	360	32,445	1.11
Black	1	112	.89	1	139	.72	1	101	.99
Mulatto	2	89	2.25		88			87	
Indian		136		2	139	1.44	2	128	1.56
Unknown	2	102	1.96	1	152	.66	4	267	1.50
Black and Mulatto	3	201	1.49	1	227	.44	1	188	.58

Proportion of Twin Births Returned as having occurred in Michigan to 1882, inclusive.

	1878.		1	1879.			1880.			1881.			1882,	
Twins.	Whole Number of Mothers, in- cluding those of Twins,	Per Ct. of Births of Twins to all Mothers.	No. of Pairs of Twins.	Whole Number of Mothers, in- cluding those of Twins.	Per Ct. of Births of Twins to all Mothers.	No. of Pairs of Twins.	Whole Number of Mothers, in- cluding those of Twins.	PerCt, of Births of Twins to all Mothers,	No. of Pairs of Twins.	Whole Number of Mothers, in- cluding those of Twins.	Per Ct. of Births of Twins to all Mothers.	No. of Pairs of Twins.	Whole Number of Mothers, in- cluding those of Twins.	Per Ct. of Births of Twins to all
427	34,729	1.23	402	33,716	1.19	358	34,953	1,02	372	34,367	1.08	430	36,578	1.1
242	20,143	1.20	274	19,777	1.25	205	20,223	1.01	218	20,001	1.09	220	20,504	1.0
173	13,857	1.25	150	13,338	1,12	150	13,961	1.07	153	13,608	1.12	199	15,252	1.5
12	729	1.65	5	601	.83	3	769	.39	1	758	.13	11	822	1.3
420	34,290	1.92	400	33,325	1.20	351	34,497	1.02	364	34,013	1.07	424	36,225	1.1
2	123	1.63	1	132	.76	2	127	1.57	3	116	2.59	2	131	1.5
4	77	5.19	1	95	1.05	1	72	1.39	2	82	2.44	3	103	2.5
1	159	.63		122		4	146	2.74	2	93	2.15	1	117	.8
	80	*****		42			111		1	63	1.59		2	
0	200	3.00	2	227	.88	3	199	1.51	5	198	2.53	5	234	2.

TABLE XI.—Parent-Nativity of Twins Returned as having been Born in Michigan during the Year 1882,—distinguishing between Parents who were Natives of the same State and those Born in different States or Countries.

			PAIR	s of T	WINS,	1882.		
NATIVITY OF PARENTS		Num	rea.		NAT		TOTAL IVITIES.	
OF TWINS, 1882.	Total.	Males.	Fe- males.	One of each Sex.	Total.	Males.	Fe- males.	One of each Sex.
All Nativities	430	135	120	175	106.00	100.00	100,00	100.00
Same American State or Foreign Country Different American States or Foreign Countries	230 112	66	69	95 47	53.49 26.04	48.89	57.50 20.84	54.29 26.86
Foreign Father and Native Mother	49	14	16	19	11.40	10.37	13.33	10.86
foreign Mother and Native Father	26	11	8	7	6.04	8.15	6.67	4.00
Unknown Mother, Father Native Unknown Mother, Father Foreign	2	1		1	.47	.74		.57
Unknown Father, Mother Native	2		1	1	.47		.83	.57
Onknown Father, Mother Foreign	9	3	1	5	2.09	2.22	.83	2.85
Different States or Countries	187	65	49	73	43.49	48.15	40.83	41.71

<sup>\*</sup>Includes "Different American States or Foreign Countries," "Foreign Father and Native Mother," and "Foreign Mother and Native Father." Compare with "Same American State or Foreign Country," and with same lines in Table XV. for still-born children.

TABLE XII .- Exhibiting, for the State and Counties, by Sex, the Number of Pairs of Twins, the Number of Twin Children. and the Nativity of Parents of Twins Returned as having been Born in Michigan during the Year 1882. Nativity stated by Pairs of Twins.

			ins.		NATI	VITY O	F PAR	ENT	8 OF	Tw	ins,	1882.		
STATE		duals	of Twins.	NAT	IVE.	For	EIGN.	and er.	and		HER	FAT Uz	HER TK.	
AND	SEX.	lylpt	Pairs	ate.	nt	me	1 +	Mother.	other ar	Fat	her.	Mot	her.	
COUNTIES.		Number of Individuals.	Number of P	Both Parents from Same State.	From Different States.	Both from Same Country.	From Different Countries.	Foreign Father Native Moth	Foreign Mother Native Fathe	Native.	Foreign.	Native.	Foreign.	
	Total	860	430	81	85	146	27	49	26	2		2		ľ
	Males	445	135	a 20	ь 30	c 46	a 10	14	411	1				
State	Females	415	120	26	21	f 43	4	16	z 8			1		
	One of each		175	h 38	1 34	1 57	• 13	4 19	4 7	1		1		,
	[Total	14	7	2	4				1					1
• 11.0	Males	8	3	1	2									ŀ
Micgan	Females	6	2		1		*****		1					١
	One of each		2	4 1	1									1
	[Total	8	4			2	1		1					1
\lpena	Males	3	1				1							l
11 pena	Females	5	2			1			1					I
	One of each		1			1								1
	Total	18	9	4	2		1	1	1					I
Barry	Males	8	2				1		d 1					ł
J.,	Females	10	3	2	1						****			1
	One of each		4	2	1			1						1
	Total	42	21	2	5	8	2	3			***			1
Bay	Males	21	5	1	1	. 1	*****	2						i
	Females	21	5	*****	1	. 4	·							1
	One of each		11	1	3	3	• 2	1	••••	****	****			ŀ
	Total	4	2		2	*****								1
Benzie	Malcs	3	1		1		•••••			****				1
	Females	1		•				****						1
	One of each		1		1			****					•	1

<sup>\* 1</sup> male still-born.

b 2 pairs and 1 male still-born.

3 pairs and 5 males still-born.

4 pair still born.

1 pair and 1 male still-born.

f 3 females still-born.

g 1 iemale still-born.
h 2 pairs, 1 male and 1 female still-born.
i 2 females still-born.
j 4 pairs and 3 females still-born.
k 2 pairs still-born.

## BIRTHS, PARENT-NATIVITY OF TWINS.

		ا ر	Twins.		NATIV	ITY O	F PA	RENT	8 OF	Tw	INS,	1882.		
		duale	of T	NAT	IVR.	FORE	IGN.	pu.	and f.		THER KK.	FAT		
COUNTIES.	SEX.	ndiv	airs	ate.	a t	ne E	Ħ	ather an Mother.		Fat	her.	Mot	her.	
		Number of Individuals.	Number of Pairs of	Both Parents from Same State.	From Different States.	Both from Same Country.	From Different Countries.	Foreign Father and Native Mother.	Foreign Mother Native Fathe	Native.	Foreign.	Native.	Foreign.	Wante of the San Lines
	[Total	10	5	2	2				1					1
	Males	9	4	A 2	1				1					1
Berrien	Females	1												1.
	One of each		1		1									I.
	[Total	6	3	1	2									
Branch	Males	2	1		1							****		
	Females	4	2	1	1				ú.					
	[Total	10	5	1	1	1	2							
Calhoun	Males	6	2	1		1								
Camoun	Females	4	1		1									
	One of each		2				2	****		****				
	{ Total	4	2	1				1						
Case	Males	2									****		.,	
V485	Females	2					 							
	One of each		2	1	<b></b>			1						
	{ Total	4	2				1	1			****			
Cheboygan	Males	3	1		<b> </b>									
	Females	1									****			
	One of each		1				1							-
	Total	2	1	1			<b></b>							
Chippewa	Males	1												
- a.ppewa	Females	1			ļ									
	One of each		1	1										ı
Clinton		2	1	10000		<b> </b>	ļ	1						-
	Females	2	1		<b></b>					***				
Eaton	Females	6	3		2	1								
	Total	10	5	1	2							1		
Genesee	Males	8	3	1	1									.
	Females	2			ļ					***				
	One of each		2		1							1	1	١

a l male still-born.

## VITAL STATISTICS OF MICHIGAN, 1882.

Grand Traverse   F   C   C   C   C   C   C   C   C   C	Total Males One of each Total Total	Number of Individuals.	Number of Pairs of Twins,	Both Parents from same State.	From Different States.	Both from same Country.	From Different S Countries.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	U	Foreign, was	U:	Foreign.
Grand Traverse F	Total	4 2 2	Number of Pairs 1882.	-	-	_			Mother father.				1
Grand Traverse { F C C C C C C C C C C C C C C C C C C	Males Females One of each Total Males	4 2 2	_	-	-	_		Foreign Fati	Foreign Mot Native Fath	Native.	foreign,	ative.	reign.
Grand Traverse   F   C   C   F   C   C   C   C   C   C	Males Females One of each Total Males	2 2	2	1	1					_	-	×	Fo
Grand Traverse F	Females One of each Total Males	10				******							
Grand Traverse F	Females One of each Total Males	10											
Gratiot	Total Males	10									****		
Gratiot	Males		2	1	1			·					
Gratiot		100	5	2	2								
F G	Females	6	2	1									
la la	the state of the second	4	1	1									
1	One of each		2		2								
Hillaria a	Tota1	4	2		2								
Hilladala	Males	2											
F	Females	2											
lo	One of each		2		2								
rı	Total	24	12			10	1	1					
	Males	16	6			4	1	1					
Houghton	Females	8	2			2							
(0	One of each		4			4							
(T	Total	14	7			4	2		1				
13	Males	10	4			. 3			1				
Haron	Females	4	1				1						
(0	One of each		2			1	1						
(1	Total	22	11	1	4	1	1	2	2				
1	Males	9	2					2					
Ingham	Females	13	4	1	2				1				
lo	One of each		5		2	1	1		1				
rı	Total	8	4	3	1								
1	Males	5	2	2									
Ionia	Females	3	1	1									
10	One of each		1		1								
-	Total	2		******									
1	Males	1											
Iosco		1							13.0	美角			00000
lo	Females	1 3	1000	200000									

<sup>.</sup> One pair still-born.

TABLE XII.—CONTINUED.—Parent-Nativity of Twins.

		- 0	Twins,		ITAN	VITY (	OF PA	KENT	18 01				
		dual	Jo.	NAT	TIVE,	For	EION.	pue	pue		THER		THER NK.
COUNTIES.	SEX.	Indivi	Patra 1882.	ots State.	erent	SA III	rent	ather other.	Mother !	Fa	ther.	Mo	her.
		Number of Individuals.	Number of Pairs 1882.	Both Parents from same State.	From Different States.	Both from same Country.	From Different Countries.	Foreign Father.	Foreign M	Native.	Foreign.	Native.	Foreign.
	f Total	12	6		2	1	1	1					
	Males	6	1		-1								
abella	Females	G	1		1								
	One of each		4			1	1	1					
	[ Total	18	9	2	2	2		2					
	Males	8	9		1								
ackson	Females	10	3	1		1		1					
	One of each		4	1	1	1		1					
	(Total	12	6	1		1	1	2	1				
	Males	8	3	1		<b>&gt;1</b>		1					
alama zoo	Females	4	1					1					
	One of each		2				1		1				
laikaska	Males	2	1			1							
	(Total	26	13	4	2	3	1	2		1			
	Maies	14	5	2		1	1			1			
Kent	. ∤   Females	12	4	1	1	l 1		1			1		
	One of each		4	1	1	1		1					
	[Total	12	6	1	1	4							
	Males	5	1			1							
Keweenaw	Females	7	2			2							
	One of each		3	1	1	1							
	(Total	6	3	1	1			1					
	Males	5	2	1	1								
Lake	Females	1											
	One of each		1					1					
	[Total	16	8	9	1	2		1	2				
	Males	7	1						1				
Lapeer	Females	9	2		1				¢1				
	One of each		5	b 2		<b>3</b> 2		1					
	(Total	8	4		1	1	1	1					
	Males	3				<u> </u>							
eelanaw	Females	5	1			1							
	One of each		3		1	ļ	ь 1	1					

			Twins.		NATI	VITY C	F PA	RENT	s oı	T W	/INS,	1882	•	
		iduals	ų,	NAT	IVE.	For	EIGN.	pug	and		HER KK.	FAT	HEE	Ī
counties.	SEX.	ndlv	Pairs	te.	in .	B	ent			Fat	ber.	Mot	her.	į
		of I	oť	ente	iffer	E .	iğ s	Pat	Fath	_				N O
		Number of Individuals.	Number	Both Parents from same State.	From Different States.	Both from same Country.	From Different Countries.	Foreign Father Native Mother.	Foreign Mother Native Father.	Native.	Foreign.	Native.	Foreign.	Both Unknown.
	Total	13	6	3	2	1								
Lenawee	Males	6	9	1	1									
Lenawed	Females	6	2	1	•••••	• 1				<b> </b> -				
	One of each		2	1	a 1									
	Total	12	6	4	2		<b> </b>							
Livingston	Males	4	1		1				:	<b> </b>				
meeton	Females	8	3	2	1		ļ	<b> </b>		<b> </b> -			<b></b>	ļ
	One of each		2	2					ļ					
Mackinac	Females	2	1	1		<b></b>								
	Total	18	9	2		6		1						
Macomb	Males	5		<b></b> .						<b> </b> -				
<b>3.40041</b> ,	Females	13	4	1	•••••	2		1						
	One of each		5	1		b 4	<b> </b>		<b> </b> -					
	Total	12	6		1	3	1	1						
Manisteo	Males	4	2	<b> </b>	1	1	<b></b> .						••••	
	Females	8	4			2	1	1	ļ					
Manitou		2	1				1							
	Total	14	7	<b> </b> -	2	5	ļ							
Marquette	Males	6	2		1	1	ļ	<b></b> .		<b></b> .				
marquetto	Females	8	3	. <b></b>	1	2	<b> </b> -							
	One of each		2	. <b></b>		2								
	Total	6	3			2	<b> </b>							1
Mason	Malos	4	1	<b></b> -		• 1	<b></b>							ļ
	Females	2												
	One of each		9			1		ļ						1
	Total	20	10	2	2	2		4						
Mocosta	Males	11	3			1		2					•	
	Females	9	2			1		1						
	One of each		5	2	2			1						
	Total	10	5		1	4								
Menominee	Males	4	1		<b></b>	1								
22011010111100,	Females	G	2		1	1		ļ						
	One of each		2			2								
					· '				<u>'</u>				'	<u>'</u>

<sup>.</sup> One female still-born.

<sup>•</sup> One pair still-born.

c One male still-born.

#### BIRTHS, PARENT-NATIVITY OF TWINS.

		ا ب	Twins.		NATI	TITY O	F PA	RENT	8 OB				
		dus	of T	NAT	IVE.	Fori	RIGN.	pu.	and r.		THER NK.		HER K.
COUNTIES.	SEX.	ndivi	afre	ate.	nt	me	1	er a	other a	Fat	her.	Mot	her.
		Number of Individuals.	Number of Pairs of	Both Parents from Same State.	From Different States.	Both from Same Country,	From Different Countries.	Foreign Father and Native Mother.	Foreign Mother Native Father	Native.	Foreign.	Native.	Foreign.
	Total	10	5	2	2				1				
	Males	9	4	a 2	1				1				
errien	Females	1											
	One of each		1		1	<b></b>							
	[ Total	6	3	1	2								
ranch	Males	2	1		1								
	Females	4	2	1	1								
	[ Total	10	5	1	1	1	2		****				
alhoun	Males	6	2	1	*****	1	ļ						
MINOUN	Females	4	1		1				****				
	One of each		2				2						
	Total	4	2	1			ļ <b></b> .						
A89	Males	2					ļ						
887	Females	2											
	One of each		2	1				1					
	[ Total	4	2				1						
heboygan	Males	3	1				- <b></b> -	1					
пероу дан	Females	1					ļ						
	One of each		1			<b> </b>	1						
	Total	2	1	1									
hippewa	Males	1			*****		ļ					****	
asppo wassess	Females	1		*****	*****					****			
	One of each		1	1	*****								
linton	Males	2	1	*****		¦							
el <b>ta</b>	Females	2	1		*****				14				
aton		6	3		2	1	ļ						
	Total	10	5	1	2			•	1			1	
enesec	Males	8	3	1	1				1				
	Females	2											
	One of each		. 2		1			•				1	

<sup>. 1</sup> male still-born.

## VITAL STATISTICS OF MICHIGAN, 1882.

## TABLE XII.—CONTINUED.—Parent-Nativity of Twins.

		als.	Twins,	v	NATI	VITY (				Mo	HER		HER
		ldus	10		IVE.		EIGN.	and	and		K.		K.
COUNTIES.	SEX.	ndiv	25.	tate	ent	E E	ent	her.	ther	Fat	her.	Mot	her.
		Number of Individuals.	Number of Pairs of 1882.	Both Parents from same State,	From Different States.	Both from same Country.	From Different Countries.	Foreign Father Native Mother.	Foreign Mother.	Native.	Foreign.	Native.	Foreign,
	Total	4	2	1	1								
	Males	2											
rand Traverse	Females	2											
	One of each		2	1	1						1		
	(Total	10	5	2	2								
	Malea	6	2	1									
Gratiot	Females	4	1	1									
	One of each		2		2		•••••						
	Total	4	2		2								
	Males	2											
Hillsdalo	Females	2											
	One of each		2		2								
	Total	24	12			10	1	1					
	Males	16	6			4	1	1					
loughton	Females	8	2			2							
	One of each		4			1							
	(Total	14	7				2		1				
	Males	10	1				•		1				
Iuron	Females	4	1				1						
	One of each		2			1	1	7				****	
	-	22	11	1	4	1	1	2	2				****
	Total	9	2		,		•	2					****
ngham	Females	13	4	1	2		•••••	2	1				****
	One of each		5	1	2	1	•••••		100				
		8	4	3	110	1	1		1	***			
	Total	5	2	3	1		•••••					****	
onia ai no	Males	•	_	1			•••••	****	****	****			
	Females	3	1	1			•••••		****				
	One of each		1	•••••	1				****	****	1	***	
	Total	2		•••••						••••			
osco	Males	1					•••••		****	****			
	Females	1		•••••									****
	One of each		1		*****		•	•1	****				

)ne pair still-born.

TABLE XII.—CONTINUED.—Parent-Nativity of Twins.

		l .	Twins,		NATI	VITY	OF PA	RENT	18 01	r Tv	VINS,	1882		
		duals	of Tw	NAT	rive.	For	RIGN.	pue	pue		THER		THER NK.	Ī
COUNTIES.	SEX.	ndivi	Seira Seria	tate.	ent	same	ent		Mother !	Fa	ther.	Mo	her.	WB.
		Number of Individuals.	Number of Pairs of 1882.	Both Parents from same State.	From Different States.	Both from se Country.	From Different Countries.	Foreign Father.	Foreign Mo	Native.	Foreign.	Native.	Foreign.	Both Unknown.
	Total	12	6		2	1	1	1						1
Tankalla.	Males	6	1		1									
Isabella	Females	6	1		1								1	١.
	One of each		4		ļ	1	1	1						1
	Total	18	9	2	2	2		2						1
Jackson	Males	8	2		1									A)
VACABOD	Females	10	3	1		1		1						
1	One of each		4	1	1	1		1						
	Total	12	6	1	<b> </b> -	1	1	2	1					-
Kalamazoo	Males	8	3	1		b 1		1						
	Females	4	1		ļ			1						
	One of each		2		<b></b>		1		1	****				
Kalkaska	.Males	2	1		ļ. <b></b>	1				••••				
	Total	26	13	4	2	3	1	2	****	1				
Kent	Males	14	5	2	·	1	1	****	••••	1		****		
	Females	12	4	1	1	1		1	****					
	One of each	•••••	4	1	1	1	*****	1	••••			****	****	
	Total	12	6	1	1	4		****		****			****	
Keweenaw	Males	5 7	1 2			1 2		****	****	***	****	****	****	
	One of each		3	1	1	b 1		****	****					
	Total	6	3	1	1	" 1		1				****	****	
	Males	5	2	1	1									
Lake	Females	1												
	One of each		1											
1	Total	16	8	2	1	2			2					
_	Males	7	1						1				****	
Lapcer	Females	9	2		1				<b>c1</b>					
	One of each		5	b 2		1 2								
1	Total	8	4		1	1	1							
	Males	3											****	
Leelanaw	Females	5	1			1								
	One of each		3		1		ь 1							

<sup>•</sup> One male still-born. , • One pair still-born. . . One female still-bern. ,

## VITAL STATISTICS OF MICHIGAN, 1882.

		15.	of Twins.			VITY C		RENT					
		ldus	of	NAT	IVE.	For	EIGN.	pur	pur	Un	K.	UN	K.
COUNTIES.	SEX.	Indiv	f Pairs	state.	Different 8.	ваше	Different ries.		Mother Father.	Fat	her.	Mot	her.
		Number of Individuals.	Number of Pairs	Both Parents from same State.	From Diff. States.	Both from same Country.	From Diffe Countries.	Foreign Father.	Foreign M	Native.	Foreign.	Native.	Foreign,
	[Total	12	6	3	2	1							
	Males	6	9	1	1								
enawee	Females	6	9	1		. 1							
	One of each		2	1	a 1								
	Total	12	6	4	2								
	Males	4	1		1								
ivingston	Females	8	3	9	1								
	One of each	*****	9	2									
ackinac	Females	2	1	1									
	Total	18	9	2		6		1	-,				
	Males	5											
acomb	Females	13	4	1		2		1					
	One of each		5	1		64				***			
	[Total	12	6		1	3	1	1					
lanisteo	Males	4	2		1	1							
	Females	8	4			2	1	1					
Ianitou	Males	2	1				1						
	[ Total	14	7		2	5							
•	Males	6	9		1	1							
larquetto	Females	8	3		1	2							
	One of each		2			2		****					
	[Total	6	3			2							
•	Males	4	1			• 1							
lason	Females	2									,		
	One of each.		· q			1							
	[Total	20	10	2	2	2		4					
[aaaata	Males	11	3			1		2					
locosta	Females	9	2	*****		1		1					
	One of each		5	2	2		ļ						
	[Total	10	- 5		1	-4							
#	Males	4	1			1	ļ						
Lenominee	Females	G	2		1	1	ļ						
	One of each		2			2	l						

<sup>•</sup> One female still-born. b One pair still-born. c One male still-born.

TABLE XII.—CONTINUED.—Parent-Nativity of Twins.

		يو	Twins.		NATIV	TTY O	P PAI	RENT	S OF		1,110		
		idual	8	NAT	IVE.	Four	ign.	pue	and	Wor	K.	UN	K.
COUNTIES.	SEX.	alpu	afra	ate.	ent	me	ent	her ner.		Fat	her.	Mot	her.
		Number of Individuals.	Number of Pairs	Both Parents from same State.	From Different States.	Both from same Country.	From Different Countries.	Foreign Father,	Foreign Mother Native Father.	Native.	Foreign.	Native.	Foreign.
	Total	4	2			1	1						
	Males	1											
idland	Females	3	1				1						
	One of each		1			1							
	Total	6	3			2		1					
issaukeo	Males	2	1			1							
	Females	4	2			1		1	****				
	f Total	22	11	5	2	2		1	1				
	Males	12	5	1	• 2	1		1					
lonrec	Females	10	4	2		1		****	1				
	One of each		2	b 2									
	{ Total	16	8	1	4	1.		2					
	Males	9	3		3								
lontcalm	Females	7	2	1				1					
	One of each		3		1	1		1					
lontmorency	Males	2	1			1				****			
	[Total	24	12	1	1	6	1	1	2				
W	Males	18	6	1	1	1	. 1		2				
Muskegon	Females	6			** ***								
	One of each		6			5		1					
	[Total	12	6			3		1	2				
¥	Males	5	2			1			1				
Newaygo	Females	7	3			1		1	1				
	One of each	ļ	1		,	e 1							
	[ Total	12	6	4				2	****				
Oakland	Males	5								***		****	
vakianu	Females	7	1					1					
	One of each		5	4				1					
	[Total	12	6	2	3	1							
00000	Males	6	1		1								
Occana	Females	6	1			1							
	One of cach		4	2	2				****				
Ogemaw	Females	2	1		1						I		

<sup>•</sup> One pair still-born.

b One male still-born.

c One female still-born.

TABLE XII.—CONTINUED.—Parent-Nativity of Twins.

		] ,	rins.		NATI	VITY (	F PA	RENT	s or	Tw	INS,	1882	•	
		duals	Pairs of Twins.	NAT	TIVE.	For	BIGN.	and r.	pu.		THER NK.		HER NK.	1
COUNTIES.	SEX.	Indiv	Pairs	tate.	ent	Same y.	ent ,	other	ther a	Fat	her.	Mot	her.	1
		Number of Individuals.	Number of	Both Parents from Same State.	From Different States.	Both from Sai Country.	From Different Countries.	Foreign Father at Native Mother.	Foreign Mother and Native Father.	Native.	Foreign.	Native.	Foreign.	Both Haberton
	f Total	6	3			2		1			,			
	Males	5	2			2								1
Ontonagon	Females	1		<b></b> .		<b> </b>								l.
	One of each	<b></b>	1	ļ				1						1
	Total	10	5	1		8			1					1
Osceola	Males	5	1			• 1								1
Osceena	Females	5	1			1								Į.
	One of each		3	1		<b>•</b> 1			1					Į.
	Total	14	7	<b></b>		5	2							Į.
Ottawa	Males	5	1	ļ			1							ŀ
V 1 68 W A	Females	9	3	ļ		<b>b</b> 3								ŀ
	One of each	!	3			2	1							-
Presque Isle	Females	2	1			1					****			ŀ
	Total	2	1		******	1		****						ŀ
Roscommon	Males	1	•									***		ŀ
200000000000000000000000000000000000000	Females	1							****					ŀ
	One of each		1			1			****					ŀ
	Total	52	26	2	5	13		3						l
Saginaw	Males	27	10		2	c 6		1						l
	Females	25	9	1	2	ъ 5							****	d
	One of each		7	1	1	2		2						ď
	Total	34	7	2		3	2	****						ŀ
Sanilac	Males	8	8			2	1							ŀ
	Females	6	2	1		1			***	••••				ŀ
	One of each		2	1	*****		1	••••			****			ŀ
	Total	2	1	1	******								••••	ŀ
Schoolcraft	Males	1		·										ŀ
	Females	1												ŀ
	One of each		1	1										ŀ

a 1 male still-born.
b 1 female still-born.
c 1 pair and 2 males still-born.
d 1 pair still-born.

		-	Twins.	1	NATIV	TITY O	F PAI	RENT	S OF	Tw	INS,	1882.	
		duals	of Tw		IVE.	FOR	EIGN.	pur	put.	Mo	THER	FAT	HER
COUNTIES.	SEX.	Indivi	Pairs	ta State.	ent	ame	rent 8.	ther a	ther sather	Fat	her.	Mot	her.
		Number of Individuals.	Number of Pairs of	Both Parents from Same State.	From Different States.	Both from Same Country.	From Different Countries.	Foreign Father and Native Mother.	Foreign Mother and Native Father.	Native.	Foreign.	Native,	Foreign.
- 1	Total	22	11	3	3	2		2	1				
Taxon and a	Males	10	4	2	a 2								
hiawassee	Females	12	5	1		1		2	1				
	One of each		2		1	1			****		****		
	(Total	20	10	2		3	2	1	1	1			
	Males	11	3	****		1	6 2						
t. Clair	Females	9	2			1		1					
	One of each		5	0 2		1			1	1			
	[Total	18	9	2	4	2		1					
	Males	9	2			1		1					
St. Joseph	Females	9	2	1	1								
	One of each			1	e 3	1							
	[Total	20	10	3	2	2		2	1				
Manada	Males	9	3		2	1							
Tuscola	Females	11	4	3				1					
	One of each		3			1		1	. 1				
	[Total	16	8		5	1		****	1				
Van De	Males	12	5		b 3	1			1				
Van Buren	Females	4	1		1								
	One of each		2		1								
	[Total	6	3			1		****	2				
-	Males	3											
Washtenaw	Females	3											
	One of each		3			1		****	2				
	[Total	88	44	10	1	24	2	3	3			1	
Mr.	Males	47	13	2		8		1	2				
Wayne	Females	41	10	3		3	1	1	1			1	
	One of each		21	5	1	d 13	1	1					
	[ Total	0	3		2	1							
-	Males	1											
Wexford	Females	5	9		1	1							
	One of each		1	1	1	1	1	1000	1	-	1		

<sup>\*</sup> l pair still-born. \* l male still-born.

c 1 female still-born. d 1 pair and 1 female still-born.

#### TRIPLET CHILDREN, 1882.

It will be seen from Table XIX. that there were nine cases of triplets reported for the year 1882. In four cases the parents were both native, and in four both were foreign, while in one case there was a mixed parentage. The set returned from Jackson county were all still-born, and in the set from Allegan county one male was still-born. As regards the sex of the triplets the males predominate at the rate of two to one. The parents were all white.

TABLE XIX.—Exhibiting certain Details concerning Triplet Children Returned as having been born in Michigan during the Year 1882.

	TI	IPLET CHILI	DREN, I	1882.		Paren	TS OF TRIPLETS,	1882.
COUNTIES.	Month			Sex.		Birthplace	Birthplace	Occupation
	of Birth, 1882.	Color.	Males.	Fe- males.	Unk.	of Father.	of Mother.	of Father.
Allegan	Nov	White	2	1		Netherlands	Netherlands	Farmer.
Berrien	Sept	White		3		Delaware	Michigan	Farmer.
Jackson	Aug	White	. 3			Michigan	England	Merchant.
Kent	Oct	White	3			New York	New York	Laborer.
Montcalm	Dec	White	3			Michigan	Michigan	Laborer.
St. Clair	Nov	White	 	3		Michigan	Michigan	Farmer.
Tuscola	April	White	8			Canada	England	Laborer.
Wayne	Dec	White	2	1		Canada	Canada	Tinsmith.
Wayne	Sept	White	2	1		Germany	Germany	Mechanic.

#### STILL-BIRTHS, 1882.

The whole number of still-born children reported in Michigan for the year 1882 was 792; this number is 101 more than for the year 1881, and 54 more than for the year 1880. The only year in which this number was surpassed was in 1878, when there were 793 still-births returned in this State. In 1882, 2.14 per cent of all the births returned were still-born, and 2.11 per cent of all the mothers, who bore children during the year, gave birth to still-born children, as shown in Exhibit 6.

Much that is interesting and instructive concerning still-born children in Michigan may be learned from Exhibit 7. It is seen that a much larger proportion of the foreign mothers bear still-born children than the native, and as this is true for every year for the last fifteen years, it seems to be a well established fact. Attention may also be called to the fact that a much larger proportion of the Black and Mulatto mothers have still-births than the

mothers of any other color.

EXHIBIT 6.—The Relation of Still-births to all Children Returned as having been Born in Michigan during the several Years 1874 to 1882, inclusive, and of the Mothers of Still-born Children to all Mothers Returned as having Borne Children during each of the Years 1874 to 1882, inclusive.

		То	TAL B	IRTHS	AND	STILL-	BIRTH	8.	
CHILDREN AND MOTHERS.	1874.	1875.	1876.	1877.	1878.	1879.	1880.	1881.	1882
All Children born	31,151	31,958	34,235	33,305	35,162	34,122	35,323	34,749	37,02
Still-born Children	464	629	646	720	793	749	738	691	799
Per Cent of Still-born to Total	1.49	1.97	1.89	2.15	2.26	2,20	2.09	1.99	2.14
All Mothers.	30,739	31,586	33,791	33,028	34,729	33,716	34,953	34,367	36,578
Mothers of Still-born Children	454	613	620	697	756	723	723	678	771
Per Cent of Mothers of Still-born Chil- dren to All Mothers	1.48	1.94	1.83	2,11	2.20	2.14	2.07	1.97	2.1

EXHIBIT 7.—By Nativity and Color, the Number and Proportion of Mothers having Still-births in Michigan during the Years 1875 to 1882, according to the Returns.

		1875.			1876.			1877.			1878.	
NATIVITY AND COLOR OF MOTHERS.	Mothers having Still-births.	Whole Number of Mothers, Includ- ing those of Still- births.	Per Cent of Mothers to all Mothers.	Mothers having Still-births,	Whole Number of Mothers, Includ- ing those of Still- births.	Per Cent of Mothers to all Mothers.	Mothers having Still-births.	Whole Number of Mothers, includ- ing those of Still- births.	Per Cent of Mothers to all Mothers,	Mothers having Still-births.	Whole Number of Mothers, includ- ing those of Still- births.	Per Cent of Mothers of Still-births
Mothers of all colors and all nativities	613	31,586	1.94	620	33,791	1.83	697	33,028	2.11	765	34,729	2.20
All native-born mothers	299	17,510	1.71	277	19,086	1.45	337	18,891	1.78	358	20,143	1.7
All foreign-born mothers Mothers of unknown nativities	239 75	1,299	1.87 5.77	268 75	13,679	7.31	286 74	13,440	2.12	321 86	13,857 729	2.3
White	593	31,147	1.90	595	33,273	1.79	677	32,445	2.08	747	34,290	2.1
Mulatto	6	89	6.74	2	88	2.27	3	87	3,45	4	77	5.1
Indian	0	136	0.74	2	139	1.44	4	128	3.13		159	0.1
Unknown	11	102	10.78	14	152	9.21	12	267	4.49	11	80	13.7
Black and Mulatto	9	201	4.48	9	227	3.96	4	188	2.13	7	200	3.5
		1879.			1880.			1881.			1882.	
NATIVITY AND COLOR OF MOTHERS.	Mothers having Still-births.	Whole Number of Mothers, includ- ing those of Still- births.	ers of Still-births	Mothers having Still-births.	Whole Number of Mothers, includ- ing those of Still- births.	ers of Still-births to all Mothers.	Mothers having Still-births.	Whole Number of Mothers, includ- ing those of Still- births.	Per Cent of Mothers to all Mothers.	Mothers having Still-births.	Whole Number of Mothers, includ- ing those of Still- births.	ers of Still-births
Mothers of all colors and all nativities	723	33,716	2.14	723	34,953	2.07	678	34,367	1.97	771	36,578	2.1
					Galenn						20 504	1.7
All native-born mothers	367	19,777	1.86	371	20,223	1.83	352	20,001	1.76	358	20,504	1
All foreign-born mothers		19,777 13,338 601		371 285 67	7000		352 272 54	20,001 13,608 758	1.76 2.00 7.12	358 306 107	20,504 15,252 822	2,0
All foreign-born mothers Mothers of unknown	280	13,338	1.86 2.10	285	20,223 13,961	1.83 2.04	272	13,608	2.00	306	15,252	
All foreign-born mothers Mothers of unknown nativities White	280 76	13,338	1.86 2.10 12.65	285 67	20,223 13,961 769	1.83 2.04 8.71	272 54	13,608 758	2.00 7.12	306 107	15,252 822	2.1
All foreign-born mothers Mothers of unknown nativities  White	280 76 706	13,338 601 33,325 132	1.86 2.10 12.65 2.12	285 67 706	20,223 13,961 769 34,497	1.83 2.04 8.71 2.05	272 54 650	13,608 758 34,013	2.00 7.12 1.91	306 107 760	15,252 822 36,225	2.1 6.8
All foreign-born mothers Mothers of unknown nativities	280 76 706 4	13,338 601 33,325 132 95	1.86 2.10 12.65 2.12 3.03	285 67 706 4	20,223 13,961 769 34,497 127	1.83 2.04 8.71 2.05 3.15	54 650 6	13,608 758 34,013 116	2.00 7.12 1.91 5.17 6.10	306 107 760 9	15,252 822 36,225 131	2.1 6.8
white	280 76 706 4	13,338 601 33,325 132 95 122	1.86 2.10 12.65 2.12 3.03 2.11	285 67 706 4	20,223 13,961 769 34,497 127 72	1.83 2.04 8.71 2.05 3.15	54 650 6 5	13,608 758 34,013 116 82	2.00 7.12 1.91 5.17 6.10	306 107 760 9	15,252 822 36,225 131 103	13.0

EXHIBIT 11.—Occupations of Fathers of Still-born Children in Michigan in 1882, according to the Returns.

FATHERS.	Oı	HILDRE	ew.	FATHERS.	Cı	HILDRI	en.
OCCUPATIONS.	Males.	Fe- males.	Unk.	OCCUPATIONS.	Males.	Fe- males.	Unk
Agents	1	1		Mechanics	2		
Architects	1			Merchants	10	5	
Bakers	1	1		Millers	3		
Bankers		1		Mill-men		2	
Barbers	1			Mill-wright	1		
Bar-tenders		1		Mining Captains	2		ļ
Blacksmiths	6	3	1	Miners	15	13	5
Book-keepers	1	2		Ministers	1		
Brewers	1			Molders	1	1	l
Brick-layers	l	1		Money Loaners		1	<b> </b>
Broom-makers	1			Night Watchman	<i>.</i>	l	,
Butchers	1		l	Pail-makers	1	<b> </b>	l
Cabinet-makers	4	1	:	Painters	4	1	l
Car Drivers.	1	l	ll	Peddlers	1	2	l
Carpenters	1 11	11	2	Photographers	1		l
Cigar-makers	2	2		Physicians	3	1	
Clerks	4	2		Policemen	1		
Conductors	_	ī		Porter	1		
Confectioners	2	I		Raftsmen	2		
Cooks	_	1		R. R. Clerks	1		
Coopers	1	2		R. R. Men	2	1	
Curriers	_			R. R. Watchman	1		
Draymen	li			Sailors	ī		
Driver of Hose Cart	i			Salesmen	i		Ì
Engineers	li	4	1	Salt-boilers	i	1	
Farmers	173	135	11	Saw-filers	1		
Farm Laborers	1 11	100		Sawyers	2		
Firemen	1	2		Shingle Sawyers	1		
Pishermen	1			Shoe-makers	2	2	
Foremen	2				Z	1	•••••
Grocers	5			Steam-dredgers		1	
	1	1	1	Stove-mounters	•••••		
Hack Drivers	i .	1		Switchmen		1	
1		1 1		Tailors	1	1	,
Horsemen	ł	1		Teachers	1	2	
Jewelers	1 70			Teamsters	4	4	<b> </b>
Laborers	. 76	51	5	Telegraphers	1	1	
Lawyers	1	4		Tool-makers	1		·····
Lumber Dealers		1		Unknown	58	36	6
Lumbermen	1	1		Varnishers		1	
Machinists		5	i	Vessel-loaders		1	
Managers.	1			Wheelwrights	1		
Manufacturers		2		Wire-makers	1		
Masons	1	4	1				

The subject of still-born children may be studied further in Tables XIV. and XV. Of the 792 still-born children, 438 were males and 321 were females, and of 33 the sex was not reported. More still-births were returned for the month of December than for any other month of the year 1882.

TABLE XV.—Parent-Nativity of Still-born Children, Exhibiting, by Sex, the Number, and Per Cent of Total Number Returned as having been Born in Michigan during the Year 1882, of Parents who were Natives of the Same and of Different States or Countries.

			STI	LL-BOE	N CHILD	REN, 1882		
NATIVITY OF PARENTS OF STILL-BORN CHILDREN, 1882.		Nux	BER.				PARENT-N	
	Total.	Males.	Fe- males.	Unk.	Total.	Males.	Fe- males.	Unk.
All nativities	792	438	321	33	100,00	100.00	100,00	100.00
Same American state or foreign country  Different American states or foreign countries	412 150	211 94	185	16	52.02 18.94	48.17 21.46	57.6 <b>3</b> 15.57	48.49 18.18
Foreign father and native mother	65	36	28	1	8.21	8.22	8.72	3.03
Foreign mother and native father Unknown mother, father native	<b>43</b> 8	29 5	11 3	3	5.43 1.01	6.62 1.14	3.43 .94	9.09
Unknown mother, father foreign	4	3	1		.50	.69	.31	
Unknown father, mother native Unknown father, mother foreign	10 1	5	4	1	1.26	1.14	1.25	3.03
Both unknown	80	54	39	6	12.50	12.83	12.15	18.18
Different states or countries	258	159	89	10	32.58	86,30	27.73	30.30
Native	288	161	116	11	36.36	36.75	36.14	83.83
Foreign	274	144	119	11	34.60	32.88	37.07	33.33

TABLE XIV.—Exhibiting, by Sex, the Parent-Nativity, and by Sex and by Months, the Number of Still-births in Michigan during the Year 1882, according to the Returns.

	- i		1	1					***************************************	**************************************							
in Native.	Parents Born in Michigan.	P															
	-		_	_													
fother.		.19dla		nknown.	ecember.	nknown.	ecember.	очетрет. Пркпомп.	оторог, гочетрет, осетрет,	ертетрет, точетрет, точетрет, оссетрет, пъпочи,	eptember otober, fovember, secember, fovember,	nly. eptember. fovember. fovember. fovember.	une.  aly.  agust.  eptember.  lotober.  locomber.  locomber.	nne.  aly.  agust.  agust.  optember.  fovember.  fovember.	farch.  pril.  lay.  uno.  nly.  ugust.  eptember.  potober.  jotober.  jotober.  jotober.  jotober.	ebruary.  pril.  lay.  lay.  lay.  lay.  loteber.  loteber.  loteber.  loteber.	farch.  pril.  lay.  uno.  nly.  ugust.  eptember.  potober.  jotober.  jotober.  jotober.  jotober.
1	1	i	+	a	n   n	n   n				n   n   N   N   N   N   N   N   N   N				n   n   n   n   n   n   n   n   n   n			
234 288	661	-	9	9	115 6	9	115 6	68 115 6	75 68 115 6	54 75 68 115 6	64 54 75 68 115 6	62 64 54 75 68 115 6	64 62 64 54 75 68 115 6	63 64 62 64 54 75 68 115 6	61 57 62 64 62 64 54 75 68 115 6	61 61 57 62 64 62 64 54 75 68 115 6	61 57 62 64 62 64 54 75 68 115 6
135 161	111	-	1 1	1	55 1	1	55 1	37 55 1	45 37 55 1	29 45 37 55 1	36 29 45 37 55 1	34 36 29 45 37 55 1	39 34 36 29 45 37 55 1	36 39 34 36 29 45 37 55 1	31 32 36 39 34 36 29 45 37 55 1	34 31 32 36 39 34 36 29 45 37 55 1	31 32 36 39 34 36 29 45 37 55 1
911 116	18		00	es	24 3	es	24 3	27 54 3	28 27 54 3	22 28 27 54 3	26 22 28 27 54 3	25 26 22 28 27 54 3	24 25 26 22 28 27 54 3	22 24 25 26 22 28 27 54 3	29 24 22 24 25 26 22 28 27 54 3	24 29 24 22 24 25 26 22 28 27 54 3	29 24 22 24 25 26 22 28 27 54 3
8 11	*		G)	67	9	9	4 6	9 4 6	01 01 01 01	3 2 4 6	9 4 6	9 4 6	9 4 6	1 4 1 3 2 3 2 4 6	1 1 4 1 3 9 3 9 4 6	1 1 4 1 3 9 3 9 4 6	9 4 6

Includes 7 pairs and 9 half-pairs male twins; 1 pair and 5 half-pairs female twins; 11 pairs twins one of each sex, 2 male twins and 6 female twins; and 5 includes 5 pairs thingers; 2 male twins and 6 female twins; and 5 includes 5 pairs, and 1 illegitimate.
 Includes 5 pairs, and 1 illegitimate.
 Includes 5 pairs, and 1 illegitimate.

#### ILLEGITIMATE OHILDREN, 1882.

There were 301 illegitimate children returned for the year 1882, which is less by 81 than the number recorded in 1881, and less by 124 than was returned in 1860. This is .81 per cent of the total births, and .82 per cent of all the mothers in 1882 bore illegitimate children. It is the smallest proportion shown for any year since 1878. Of the 301 illegitimates, 145 were males, 154 females, and in two the sex was not stated. Wayne county furnished 44.19 per cent of the entire number. It is to be expected that the returns of such births will be incomplete, although this deficiency is nearly a constant one from year to year. The decrease, for 1882, in the number of births out of wedlock from the number reported for the last two years is quite marked. The average annual number of illegitimate children for the fifteen years 1868–82 is 247, which indicates that the year 1882 is considerably above an average one.

Exhibit 9 shows the nativity and color of mothers of illegitimate children for each of the years 1875 to 1882, inclusive. The proportion of mothers of illegitimates to all mothers is greatest among the native-born for each year shown in the Exhibit, and the per cent of the unknown nativities is greatly in excess of the others.

Among the different races the per cent of mothers of illegitimate children to all mothers is greatest among the Indians, and least among the white inhabitants, the per cent among the whites being only .76, while that of the Indians is 9.40.

In Table XVI. may be seen the number of illegitimate children by months, by sex, and by parent-nativity. The largest number appears for March, and the smallest for February. Table XVII. shows the illegitimate birth-rate among the different races for the year 1882. The largest per cent of illegitmate births to population is for the Indians, the next for the black and mulatto, and the smallest for the whites.

The proportion of the sexes among these children for the year 1882 was 94 males to every 100 females, as is seen in Table XVIII. It also shows what a large proportion of the fathers escape registration, over 78 per cent of them.

EXHIBIT 8.—The Relation of Meditimate Children to All Children Returned as having been Born during the Years 1873 to 1883 inclusive, and of Mothers of Meditimates to all Mothers Returned as having Borne Children in Michigan during each of the Years 1877 to 1882, inclusive.

			T	TOTAL BIRTHS AND ILLROITIMATES.	RTES AN	D ILLEG	ITIMAT	K8.		
CHILDREN AND MOINERS.	1878.	1874.	1875.	1876.	1877.	1878.	1879.	1880.	1881.	1882.
All children born.	34,608	31,151	31,968	34,235	33,396	36,162	34,122	35,323	84,749	37,026
Illegitimate children	316	22	193	997	316	202	85	495	288	301
Per cent of illegitimates to total	.91	92.	8.	87.	8	.57	86	1.30	1.10	.81
All mothers	34, 180	30,730	31,586	33,791	33,028	827,28	33,716	84,953	34,367	36,578
Mothers of illegitimate children	314	903	192	506	318	808	88	â	378	SS:
Per ceut of mothers of illegitimates to all mothers	g;	Ŀ.	.61	8.	ę.	<b>3</b> 5	86	121	1.10	86

. The number of illegitimates returned from Wayne county for 1878 was probably too small by about 70 births. Heretofore the children born in the "Foundling's Home" in the ninth ward of Detroit, have generally been returned as illegitimate; but we were unable to get any such statement for 1875. although there is no doubt that those children whose fathers' names were reported "Unknown" (the mothers' names being given) in the said ninth ward, were illegitimate.

EXHIBIT 9.—By Nativity and Color, the Number and Proportion of Mothers of Illegitimate Children Returned as having been Born in Michigan during the Years 1875 to 1882, inclusive.

		1875.			1876.			1877.			1878.	
NATIVITY AND COLOR OF MOTHERS.	Mothers having Il- legitimates.	Whole Number of Mothers, including those of Illegiti- mates.	Per Cent of Mothers of all Mothers.	Mothers having II- Jegitimates.	Whole Number of Mothers, including those of Hiegiti- mates.	Per Cent of Moth- ers of Hiegitimates to all Mothers.	Mothers having II- legitimates.	Whole Number of Mothers, including those of Integitt- mates.	Per Cent of Mothers of Illegitimates to all Mothers.	Mothers having Il-	Whole Number of Mothers, including those of Illegitti- mates.	Per Cent of Mothers of Illegitimates
Mothers of all colors and all nativities	192	31,586	.61	262	83,791	.78	312	33,028	.94	a202	34,729	.5
All native-born mothers	96	17,510	.55	170	19,086	.89	160	18,891	.85	114	20,143	.5
All foreign-born mothers Mothers of unknown nativities	31 65	12,777 1,299	5.00	53 39	18,679	3.80	79 78	13,449 688	.59 10.61	34 54	13,857 729	7.4
White	166	31,147	.53	243	33,278	.73	286	32,445	.88	179	34,290	.5
Black	8	112	7.14	3	139	2.16	6	101	5.94	7	123	5.6
Mulatto	3	89	3.37	7	88	7.95	4	87	4.60	3	77	3.9
Indian	15	136	11.03	9	139	6.47	15	128	11.72	11	159	6.1
Unknown		102			152		1	267	.37	2	80	2.5
Black and Mulatto	11	201	5.47	10	227	4.41	10	188	5.32	10	200	5.0
		1879.			1880.			1881.			1882.	
NATIVITY AND COLOR OF MOTHERS.	Mothers having Il- legitimates.	Whole Number of Mothers, including those of Illegiti- mates.	Per Cent of Mothers of Mothers to all Mothers.	Mothers having It-	Whole Number of Mothers, including those of Illegiti- mates.	Per Cent of Mothers of Diegitimates to all Mothers.	Mothers having Il- legitimates.	Whole Number of Mothers, including those of Illegiti- mates.	Per Cent of Moth- ers of Hiegitimates to all Mothers.	Mothers having Ii-	Whole Number of Mothers, including those of Illegiti-mates.	ers of Hegitimates
Mothers of all Colors and all nativities	289	33,716	.86	423	34,953	1.21	378	34,367	1.10	299	36,578	.8
All native-born mothers	136	19,777	.69	147	20,223	.73	185	20,001	.92	143	20,504	.7
All foreign-born mothers Mothers of unknown nativities	89 64	13,338	.67 10.65	72 204	13,961 769	.52 26.53	96 97	13,608 758	.71	77 79	15,252 822	9.6
White	266	33,325	.80	408	34,497	1.18	365	34,013	1.07	275	36,225	-
Black	7	132	5.30	4	127	3.15	6	116	5.17	9	131	6.8
Mulatto	4	95	4.21	3	72	4.17	3	82	3.66	4	103	3.8
Indian	11	122	9.02	7	146	4.79	4	93	4.30	11	117	9.4
Unknown	1	42	2.38	1	111	.90		63			2	
Black and Mulatto	11	227	4.85	7	199	3.52	9	198	4,55	13	234	5.8

<sup>\*</sup> See foot-note \*, Exhibit 9, page 73.

TABLE XVI.—Exhibiting, by Sex, the Total Number, Number by Months, and the Nativity of Parents of Illegitimate Children Born in Michigan during the Year ending December 31, 1882, according to the Returns.

						Z	MONTES, 1882.		99 90 1	,						5	ITIN	ATES,	GITIMATES, 1882.					X	ATE	OITIMATES, 1882.	GITIMATES, 1882.	
SEX OF															Z	ative.		FC	Foreign.	7		Z	Native.		Fo	Foreign.	1	
MATES, 1883.	1882.	.Yrannal.	February.	March.	April.	May.	Jane.	July.	August.	September.	October.	November,	<b>December</b>	Такпочи.	Total.	Born in Mich-	Born in other States.	Total.	Born in Can- ada.	Born in other Countries.	Тикпомп.	Total.	Born in Mich-	Born in other States.	Total.	Born in Can-	Born in other Countries.	Unknown.
Total	1084	21	14	39	8	13	23	72	18	88	18	33	38	10	145	8	22	E	8	89	42	200	15	12	31	11	50	235
Malos	1145	27	80	15	=	16	6	6	22	11	10	10	22	Ø\$	26	99	96	85	14	18	8	17	6	00	19	10	77	109
Females	\$	0	9	24	6	19	16	18	10	11	00	12	13	Н	29	8	88	45	15	30	4	18	23	9	12	9	9	124
Unknown .	••	-	i	1	1		-	- }		1	1	-	1	g4	O1	-	-	1	1					1	1	1		69

. Five males, I female, and one unknown sex, still-born; I pair female twins, and I pair one of each sex.

· Includes 5 Black, 2 Mulatto, and 3 Indlan.

b Includes 4 Black, 2 Mulatto, and 8 Indian.

TABLE XVII.—Exhibiting, by Color, and by Sex, the Population June 1, 1880, the Number of Illegitimate Children Returned as having been Born in Michigan during the Year 1882, the Per Cent of such Children to Inhabitants, the Per Cent of each Sex to the Total of both Sexes, and the Number of Inhabitants to each Illegitimate Child Reported.

COLOR OR RACE.	SEX.	Population June 1, 1880, Represent- ed by Births in 1882.	Total Illegitimate Births, 1882.	Per Cent of Births to Popula- tion.	Per Cent of each Sex to Total of Both Sexes.	Number of Inhabit- ants to one Illegitimate Child of the same Color.
	Total	a 1,633,352	301	.02		5,426
All Colors	Males	860,179	145	.02	48.49	5,932
All Colors	Females	773,173	154	.02	\$1.51	5,021
•	Unknown.		2			
	Total	1,611,410	277	.02		5,817
White	Males		131		47.64	
white	Females		144		52.36	
	Unknown.		2			
,	Total		9			
Black	Males		4		44.44	
,	Females		5		55.56	
	Total		4		<b></b> .	
Mulatto	Males		2		50.00	
	Females		2		50.00	
!	Total	6,827	11	.16		621
Indian	Males		8		72.73	
	Females		3		27.27	
	Total	15,087	13	.09		1,161
Black and Mulatto.	Males		6		46.15	
	Females		7		53.85	

a Includes 28 Asiatics.

TABLE XVIII.—Exhibiting the Number of Males to 100 Females, and by Sex the Number and Per Cent of Total Number of Illegitimate Children Born of Native and of Foreign-born Parents, in Michigan, during the Year 1882, according to the Returns.

		Illegitimate Children, 1882.										
NATIVITY OF		Number of		Nur	aber.			Per Cent	of Total	,		
		Males to 100 Females	Total.	Males.	Fe- males.	Unk.	Total,	Males.	Fe- males.	Unk.		
All nativities		94	301	145	154	2	100.60	100.00	100.00	100.00		
	Native	113	145	76	67	2	48.17	52.41	43.51	100.00		
Mothers	Foreign	71	77	82	45		25,58	22.07	29,22			
	Unknown	88	79	37	42		26.25	25.52	27.27			
	Native	94	35	17	18		11.63	11.73	11.69			
Fathers	Foreign	158	81	19	12		10,30	13.10	7.79			
	Unknown	88	235	109	124	2	78.07	75.17	80.52	100.00		

TABLE XX.—Exhibiting the Number of Males to 100 Females among Twin Children, and the Number of Illegitimate and Still-born Children Born during the Year 1882.

1	Twin	i	,		Twin	1	<del></del>
STATE	Children,	Number of Illegiti-	Number		Children,	Number of Illegiti-	Number
AND	Number of Males	mate Chil-	of Still- births in	COUNTIES.	Number of Males	mate Chil- dren born	of Still- births in
COUNTIES.	to 100 Females.	dren born in 1882.	1882.		to 100 Females.	in 1882.	1882.
State	107	301	792	Lenawee	100	6	10
Allegan	133	2	15	Livingston	50	2	9
Alpena	60	1	- 4	Mackinac		_	
Antrim		1	5	Macomb	38	4.	14
Barry	80	3	8	Manistee	50	1	15
Bay	100	2	20	Maniton			1
Benzie	300	_	3	Marquette	75	5	26
Berrien	900	2	16	Mason	200	1	5
Branch	50	1	8	Mecosta	122	1 1	2
Calhoun	150	1 1	7	Menominee	67		4
ł	1		1		1		
Cass	100	4	6	Midland	33	2	2
Charlevoix	•		4	Missaukee	50		3
Cheboygan	300		2	Monroe	120	6	19
Chippewa	100	5	3	Montcalm	129	5	15
Clare		•••••	5	Montmorency	ъ		
Clinton	ъ	2	6	Muskegon	800	5	16
Crawford	•••••		1	Newaygo	71	3	18
Delta	•	1	2	Oakland	71	2	13
Eaton		•••••	8	Oceana	100		7
Emmet		9	3	Ogemaw	•		2
Genesee	400	4	9	Ontonagon	500	2	2
Grand Traverse	100	••••		Osceola	100	<b></b>	6
Gratiot	150	3	8	Oscoda			1
Hillsdale	100	1	6	Otsego		1	
Houghton	200	8	10	Ottawa	56	2	22
Huron	250	8	11	Presque Isle	•		. 4
Ingham	69		14	Roscommon	100	1	1
Ionia	167	4	10	Saginaw	108	13	68
losco	100	1	6	Sanilac	133	4	14
Isabella	100	4	3	Schoolcraft	100	1	2
Jackson	80	1	10	Shiawassee	83	8	11
Kalamazoo	200	5	9	St. Clair	122	7	17
Kalkaska	ь		1	St. Joseph	100	4	23
Kent	117	5	16	Tuscola	82	5	9
Keweenaw	71	5	15	Van Buren	300	8	12
Lake	500		2	Washtenaw	100	4	17
Lapeer	78	4	14	Wayne	115	133	125
Leelanaw	60	1	4	Wexford	20		3
a No males.		<del></del>		o females.	1		

a No males.

b No females.

Exhibit 10 gives the names of 18 townships in Michigan in which it was reported that no births occurred in 1882. Four of these townships were organized since the census of 1880 was taken, and the remaining ones represent a population of 3,417. Fife Lake, in Grand Traverse county, reports no births, although it has a population of 974.

EXHIBIT 10.—Townships in which it is Reported there were no Births in 1882.

		Popu	LATION IN	1880.
COUNTIES.	Townsmips,—no Births in 1882.	Total.	Males.	Females.
Total		3,417	2,180	1,237
Benzie	Lake	42	26	16
Delta	Nahma	388	235	153
Delta	Winona	78	43	35
Emmet	Littlefield	266	143	123
Grand Traverse	Fife Lake	974	560	414
Iosco	Thompson	81	64	17
Lake	Eston	92	49	43
Missaukee	Pioneer	299	192	107
	(Cumming	122	91	31
Ogemaw	Edwards	306	210	96
	Greenwood			
Oscoda	Long Lake			
1	Mentor			
	(Charlton	100	65	35
Otsego	Elmira	225	112	113
1	( Denton	210	162	48
Roscommon	( Nester	234	228	6
Wexford	South Branch			

<sup>•</sup> Organized since census was taken.

There were 11 townships besides Isle Royal county from which no returns of births were received for the year 1882. These delinquent townships represent a population of 3,585. In nearly every instance the supervisors neglected to make returns to the county clerk.

TABLE XXI.—Exhibiting the Counties and Townships from which no Returns of Births in 1882 were Received, and by Sex and by Color, the Number of Inhabitants June 1, 1880, in such Counties and Townships.

	Townships From which no Returns	Popul	ATION, 1, 1880	JUNE	,	WHITE	<b>.</b>	ck and	ë	ive.	eign.
COUNTIES.	OF BIRTHS WERE RECEIVED FOR 1882.	Total.	Males.	Females.	Total.	Males.	Females.	Total Black Mulatto.	Total Indian.	Total Native.	Total Foreign.
Total		3,585	2,176	1,409	8,150	595	387	13	422	2,014	805
Delta	Sack Bay	301	174	127	301	174	127				
Iosco	Wilber	202	100	102	202	100	102			122	80
Mackinac	Garfield	 434 910	294	140	409 762				25 135	317 747	117
Mason	Branch	400 589	277 854	123 235	371 416				29 173	234 461	166 128
	( Cedarville	229	171	58	229	171	58		1/3	89	130
Menominee	Ingaliston	195	119	76	195	119	76				
Schoolcraft	Munising	270	174	96	210		<b> </b> -		, 60		
Isle Royal	All townships	55	31	24	55	31	24			34	21

<sup>·</sup> Organized since census was taken.

#### SEX OF CHILDREN.

The tables and exhibits which follow are much the same in this as in previous Reports. They are designed to facilitate the study of the influence of season, of mortality, of parent-nativity, etc., upon the sex of the children born. The births are given by months, as they are originally returned, as they appear after corrected for omissions in the enumeration, and also as they appear when the months are made of equal length.

Exhibit N shows the births as compiled directly from the returns; Exhibit O shows the births, after those in unknown month and children of whom the sex is not reported are omitted; and Exhibit P shows the births after the

above-mentioned corrections are made.

TABLE XXII.—Exhibiting, by Months, the Relation between the Total Number of Conceptions during certain Months of the Years 1881-82, and the Proportion of each Sex Conceived during the same time and Born during the Year ending December 31, 1882, according to the Returns.

				IS IN 1882 a	
of B	s of 1881 and 1882 of Conceptions irths in 1882, in order by number, east first.	Total Number of Concep- tions, b	Nun	s = of 1881 and 1882 in order by ther of Males, to 100 Females, test first.	Number of Male to 100 Females
7	April	2,438	of	Decemberc	112
Avera Con.	May	2,754	A O II O	April	111
on the A ber of C eptions.	September	2,770	erte es.	July	110
than the Averamber of Con- ceptions.	June	2,948	than the Av Proportion of	October	110
Number of Ception	August	2,971	ore ti	June	100
Los	October	3,039	<b>X</b>	November	106
Avera	ge	3,078	Avers	ge	106
	July	3,098	٠	January, 1882	106
¥ŏ.	February, 1882	3,251	Ave	March, 1882	107
the tion	January, 1882	3,314	the ortic	May	106
More than the Asser of Conceptions.	March, 1882	3,408	than the Aver- Proportion of Males.	February, 1882	106
ို့မှိုင်	November	3,453	Less tl	August	100
Ř	December	3,491	7 4	  September	105

<sup>\*</sup> Equalized to months of 30.44 days each, and excluding unknown sex and unknown month.

\* For purposes of this study the time of conception is presumed to be nine calendar months previous to the month of birth.

\* Exceptions to the proposition that more than the average proportion of males were conceived in months in which less than the average total number of conceptions occurred, and vice versa.

TABLE XXIII .- Exhibiting by Months the Relation between the Number of Conceptions and the Number of Males to 100 Females. Conceptions estimated from Births Corrected as if Enumerated in Months of Occurrence, and Equalized to Months of uniform length.

	Conc	EPTIONS F	OR BIRT	нв, 1882.а	
Birth Corre occur unifo	of 1881 and 1882 of Conceptions of s in 1882, estimated from Births stetod as if enumerated in months of rence, and equalized to months of rm length. Months arranged in by number, the least first.	Number of Concep- tions as Corrected and Equal- ized.b	Birth Corre occus unifo order	s of 1881 and 1882 of Conceptions of as in 1882, estimated from Births sected as if enumerated in months of rrence, and equalized to months of orm length. Months arranged in r by number of Males to 100 Fe- s, greatest first.	Number of Males to 100 Females. Births Corrected and Equal ized.
8 A	April	3,758	Ar.	April	115
Average Concep-	September	3,799		December	114
Se Se Se Se Se Se Se Se Se Se Se Se Se S	February1882	3,910	More than the Average Proportion of Males.	October	113
in the	March1882	3,983	of 1	July	113
unber of the the	October	4,067	Mo Gra	Unec	112
Less	January 1882	4,098	Aver	age	111
Aver	age	4,140		( May	110
2.8	Мау	4,150	Average 1 of	November	110
Aver-	August	4,175	Ave.	January18820	110
the or o	June	4,843	the side	March	109
More than the A age Number of ceptions.	December	4,435	Proportion Males.	August	108
ore t	July	4,461	Less t	February1882	108
ž Ķ	November	4,504	Ă	September	105



a See foot-note b to Table XXII., page 81.
b Excluding unknown month and unknown sex.
c Exceptions to the proposition that more than the average proportion of males were conceived in months in which less than the average number of conceptions occurred, and vice versa.

TABLE XXIV.—Exhibiting, by Months, according to the Returns, the Relation between the Total Number of Conceptions, and the Total Number of Deaths which occurred in the Months of the Years 1881 and 1882 in which were Conceived the Children Born during the Year ending December 31, 1882.

	DEATHS.		CONCEPTIONS. b					
of Bi	a of 1881 and 1882 of Conceptions this in 1882, arranged in order, by number of deaths, the least first.	Number of Deaths, as Equal- ized.	Months of Bi the le	Number of Concep tions as Equal- ized. a				
0.50	January, 1882	961	age b-	April	2,441			
Ath	February, 1882	1,273	vers	May	2,757			
the Average of Deaths.	June	1,295	CCO.	September	2,773			
or o	March, 1882	1,347	er o	June	2,950			
Less than t	May	1,431	Less than the Average Number of Concep- tions.	August	2,976			
Les	April	1,448	Les	October	3,044			
Avera	ge	1,602	Avera	ge	3,083			
ė	November	1,641	4	July	3,103			
Ave	July	1,670	Ave of	February, 1882	3,262			
than the Aver- e Number of Deaths,	December	1,716	More than the Average Number of Conceptions.	January, 1882	3,318			
Nun	October	1,906	Nun	March, 1882	3,415			
Mora ti	August	2,205	age Co	November	3,457			
M	September	2,335	M	December	3,495			

Equalized to months of 30.44 days each, excluding unknown month.
 See foot-note > to Table XXII., page 81.
 Exceptions to the proposition that there were more than an average number of conceptions in months in which less than an average number of deaths occurred, and vice versa.

TABLE XXV.—Exhibiting the Relation, by Months, between the Number of Conceptions and the Number of Deaths, the Number of Deaths and the Number of Births Returned from which Conceptions are Estimated, being Corrected as if Enumerated in Months of Occurrence, and Equalized to Months of uniform length.

	DEATHS.		Conceptions.a					
Birtl ber c corre occu	s of 1881 and 1882 of Conceptions of is in 1882, arranged in order by num- of Deaths, the least first. Deaths cted as if enumerated in months of rrence, and equalized to months of orm length.	Number of Deaths as Cor- rected and Equal- ized.	Months Birth Corre occus unifo order	Number of Concep tions, as Corrected and Equal ized.b				
8 .	June	1,908	981	Aprilc	3,768			
the Average of Deaths.	January, 1882	1,966	verage Con-	September	3,809			
r De	November	2,065	of C	February, 1882	3,926			
Less than the Number of I	December	2,087	Less than the A. Number of C	March, 1882	3,993			
th In the	May	2,169	N ath	October	4,077			
I S	April	2,258	Les	January, 1882	4,106			
Aver	age	2,385	Aver	age	4,151			
4	July	2,389	of of	May	4,162			
¥ 5	October	2,480	A V	Augustc	4,189			
More than the Average Number of Deaths.	February, 1882	2,522	fore than the Avage Number of	June	4,352			
han Nur Dea	March, 1882	2,582	than Nur oncep	December	4,443			
age	August	3,060	age Co	4,475				
Ř	September	3,138	Mo	November	4,514			

a See foot-note b to Table XXII., page 81.
b Excluding unknown month.
c Exceptions to the proposition that there were more than an average number of conceptions in months in which less than an average number of deaths occurred, and less than an average number of conceptions in months in which more than an average number of deaths occurred.

TABLE XXVI.—Exhibiting by Months, the Relation between the Number of Deaths and the Proportion of each Sex Conceived during the same Months of the Years 1881 and 1882; the Number of Deaths and the Number of Births Returned from which Conceptions are estimated being Corrected as if Enumerated in Months of Occurrence, and Equalized to Months of uniform length.

	DEATHS.			Conceptions.	
of Bi numb Corre of oc	s of 1881 and 1882 of Conceptions rths in 1882, arranged in order by ser of Deaths, least first. Deaths seted as if enumerated in months currence, and equalized to months iform length.	Number of Deaths, as Cor- rected and Equal- ized,	of Bir Corre of occ of uni order	s of 1881 and 1882 of Conceptions the in 1882, estimated from Births ected as if enumerated in months currence, and equalized to months form length. Months arranged in by number of Males to 100 Fe- it, greatest first.	Number of Males to 100 Fe-males. Births Corrected and Equalized.
oge I.	June	1,908	Av.	April	115
s than the Average umber of Deaths.	January, 1882	1,966	More than the Average Proportion of Males.	December	114
<==	November	2,065	an t	October	113
Less than the Number of I	December	2,087	ge I	July	113
a di	May	2,169	Mor	June	112
Nes Nes	April	2,258		go	111
Avers	sge	2,385	6)	( May	110
Ł	( July	2,389	Average of	November	110
Arer- of	October	2,480	Ave 1 of	January, 1882c	110
the the	February, 1882	2,522	the rtfor	March, 1882	ł
re than the Av age Number of Deaths.	March, 1882	2,582	than the A Proportion Males.	August	108
More the	August	3,060	Less th	February, 1882	108
ĝ	September	3,138	ว	September	105

See foot-note to Table XXII., page 81.
 Excluding births in unknown month and unknown sex.
 Exceptions to the proposition that more than an average proportion of males were conceived in months in which less than an average number of deaths occurred, and less than an average proportion of males in months in which more than an average number of deaths occurred.

TABLE XXVII.—Exhibiting by Months, according to the Returns, the Relation between the Total Number of Deaths and the Proportion of each Sex Conceived during the same Months of the Years 1881 and 1882, and Born during the Year ending December 31, 1882.

	DEATHS.			CONCEPTIONS.b	
Birthe	of 1881 and 1882 of Conceptions of in 1882, arranged in order by num- Deaths, the least first.	Number of Deaths as Equal- ized.	Months ber of first.	of 1881 and 1882 in order by num- Males to 100 Females, greatest	Number of Males to 100 Females.
1ge 8.	January 1882	961	ver-	December	112
ver	February, 1882	1,273	Ave	April	111
s than the Average umber of Deaths.	June	1,295	than the Av Proportion of Males.	Julyc	110
an tl	March, 1882	1,347	than Propo Malo	Octobere	110
Less than Number	May	1,431	More t age P	June	109
Les	April	1,448	ž ·	November	108
Aver	age	1,602	Aven	age	108
	November	1,641	989	Jauuary, 1882c	108
	July	1,670	verage	March, 1882e	107
than the A e Number of Deaths.	December	1,716	Proportion Males.	Мауе	- 106
Nur	October	1,906	Men t	February, 1882	106
More t	August	2,205	i gr	August	105
ă	September	2,335	Less	  September	102

Equalized to months of 30.44 days each, excluding unknown sex and unknown month.
 See foot-note b to Table XXII., page 81.
 Exceptions to the proposition that more than an average proportion of males were conceived in months in which less than an average number of deaths occurred, and less than an average proportion of males in months in which more than an average number of deaths occurred.

EXHIBIT N.—Births Returned as having occurred in Michigan during the Year 1882, by Sex, and by Months Equalized to 30.44 days each.

SEX.	Year,		MONTHS OF BIRTHS, EQUALIZED, 1882.											
	1982.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
Total	• 37,032	2,441	2,757	2,950	3,103	2,976	2,773	3,044	3,457	3,495	3,318	3,262	3,415	41
Males	19,181	1,283	1,419	1,537	1,621	1,525	1,400	1,593	1,790	1,841	1,724	1,672	1,763	13
Females	17,791	1,155	1,335	1,411	1,477	1,446	1,370	1,446	1,663	1,650	1,590	1,579	1,645	24
Unknown	60	3	3	2	5	5	3	5	4	4	4	11	7	4

<sup>\*</sup> Two males and four females gained in equalizing, making the number shown in this Exhibit six more than the number returned.

EXHIBIT O.—Births Returned as having occurred in Michigan during the Year 1882, by Sex, and by Months Equalized to 30.44 days each, and by Months, the Excess of Males over Females, and the Number of Males to 100 Females. Unknown Sex and unknown month excluded.

SEX.	Year, 1892.	MONTHS OF BIRTHS, EQUALIZED, 1882.											
		Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Both Sexes	<b>a</b> 36,935	2,438	2,754	2,948	3,098	2,971	2,770	3,039	8,453	3,491	3,314	3,251	3,408
Males	19,168	1,283	1,419	1,537	1,621	1,525	1,400	1,593	1,790	1,841	1,724	1,672	1,763
Pemales	17,767	1,155	1,335	1,411	1,477	1,446	1,370	1,446	1,663	1,650	1,590	1,579	1,645
Excess of Males Males to 100 Fe-	1,401	128	84	126	144	79	30	147	127	191	134	93	118
males	108	111	106	109	110	105	102	110	108	112	108	106	107

a The number of births of each sex, and the total number of both sexes, as equalized, do not equal the number of births as returned, because of the loss of fractions, and the unequal numbers in the several months, modified by addition and subtraction. This table excludes births in unknown month and of unknown sex. These (minus the 6 gained in equalizing) added to the number shown in this table, make the number as returned by registration officers,—37,026.

EXHIBIT P.—Births Returned as having occurred in Michigan during the Year 1882, by Sex and by Months. Corrected for Omissions in Enumerating, Equalized for Increase of Population during the Year covered by the Returns, and as thus Corrected and Equalized for the several Months, Equalized for Months of 30.44 days each.

SEX.	Year, 1882.	Months of Births, 1882.												
		Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	
Both Sexes	50,815	3,915	4,310	4,495	4,602	4,292	3,892	4,158	4,582	4,498	4,142	8,938	3,996	
Males	26,691	2,094	2,256	2,378	2,442	2,233	1,993	2,202	2,401	2,395	2,174	2,042	2,081	
Females	24,124	1,821	2,054	2,117	2,160	2,059	1,899	1,951	2,181	2,103	1,968	1,896	1,915	

TABLE XXVIII.—Exhibiting for the Total Births, for the Twins, Illegiti-mates, and Still-Born Children Returned as having been Born in Michigan during the Year 1882; the Number of Boys to 100 Girls among such Children, distinguishing by Parent-Nativities, thus exhibiting the Influence of Parent-Nativity and of other Conditions upon the Sex of Children.

	Віктив	IN 1882.4		Boys to	100 GIRLS.	
NATIVITY OF PARENTS, 1882.	Males.	Females.	Total Births.	Twin Children.	Illegiti- mates.	Still- births.
All nativities	19,179	17,787	107.83	107.23	94.16	136.45
Both parents native	8,382	7,769	107.89	103.61		138.79
Both parents foreign	6,877	6,278	109.54	110.98		121.01
Foreign father and native mother	2,210	2,143	103.13	92.16		128.57
Foreign mother and native father	1,131	1,078	104.91	126.09		263.64
One or both parents unknown	579	519	111.56	136.45		144.68
Native	10,686	10,022	106.63	100.00	113.43	136.49
Mother Foreign	8,039	7,400	108.64	112.83	71.11	133.85
Unknown	454	365	124.38	175.00	88.10	144.19
Native	9,623	8,937	107.68	107.37	94.44	150.00
Father Foreign	9,129	8,466	107.83	106.51	158.33	123.65
Unknown	427	384	111.20	120.00	87.90	139.53
One or both native	11,927	11,190	106.59	103.28		145.68
One or both foreign	10,291	9,588	107.33	108.40		133.96
Both unknown	302	230	131.31	157.14		138.46
Same country	b 15,259	b 14,047	ь 108.63	c 103.88		c 128.00
Different countries	d 3,341	d 3,221	4 103.73	• 114.74		• 167.35
Same American state or foreign coun-				97.42		114.05
Different American states or foreign country				130.93		188.00

Excluding unknown sex.
 Includes "Native" and "Foreign."
 Includes "Native" and same foreign country.
 Includes "Foreign Father and Native Mother," and "Foreign Mother and Native Father."
 Includes "Different Countries," "Foreign Father and Native Mother," and "Foreign Mother and Native Father."

## MARRIAGES, 1882.

In 1882 the marriages returned to the State Department were 16,178, as compared with 14,847 in 1881, and 14,149 in 1880, and 13,225 in 1879. These figures represent the marriages as originally returned and published in the reports for each of those years; since that time, however, there have been 667 marriages returned for 1879, 739 for 1880, and 824 for 1881. This shows how frequently the law is violated by persons who are authorized to solemnize marriages, by sending their returns to the county clerk a year or more after they have taken place. This is undoubtedly the result of indifference to the requirements of the law, or from ignorance of those requirements.

The average annual number of marriages, as first returned, for the thirteen years 1870–1882, is 11,875. The excess of marriages over the number as first returned in 1881 is 1,331, and over the average for thirteen years is 4,303. Based upon the population of 1880 there was one marriage to every 101 persons in the State, and the number of marriages to every thousand of the population was 9.90, or 19.80 persons. The estimated population of the State for the year 1882 is 1,746,453; using this as a basis there would be one marriage to every 108 persons, and the number of marriages to every thousand of the

estimated population would be 9.26, or 18.52 persons.

There has been a continual increase in the number of marriages returned for every year since 1876, which is an indication of the general prosperity in the condition of the people of Michigan.

The average number of marriages for each of certain specified periods of time, during the year 1882, is as follows:

Total number of marriages	16,178.00
Average number per quarter	4,044.50
Average number per month	1,348.17
Average number per week	311.12
Average number per day	44.32

In Michigan the last quarter always returns the largest number of marriages, and the year 1882 is no exception to the general rule, there being 5,068 in the fourth quarter, 3,878 in the third quarter, 3,644 in the second quarter, and 3,577 in the first quarter. The number and per cent in each quarter of the year 1882, and also for the years 1874–1881, may be seen in Table I., the number for each year being corrected for additional returns up to December 17, 1883. The additional number of marriages for 1882 will doubtless be returned with those for 1883, and will increase the number in each quarter of the year.

TABLE I—Marriages by Quarters of the Year, showing Number and Per Cent in each Quarter of the Year for each of the Years 1874 to 1882, inclusive, Corrected for Additional Returns up to December 17, 1883.

TOTAL AND MONTHS WITH WHICH	1874.	, gi	1875.		1876.	<u>.</u>	1877.	7.	1878.	αů	1879.		1880.		1881.		1882.	લં
QUARTERS END.	Num- ber.	Per Cent.	Num. ber.	Per Cent.	Num- ber.	Per Cent.	Num- ber.	Per Cent.	Num- ber.	Cent.								
Totals	12,289	100.00	11,873	100.00	11,913	100.00	11,809	100.00	12,880	100.00	13,802	100.00	11.88 14.88	100.00	15,671	100.00	16,178	100.00
March	2,952	24.02	99,	8 18	2,713	13	2,713	8 8	2,990	88	3,105	23.35	3,341	£;	3,447	21.90	3,577	22.11
June	2,604	21.19	2,665	13.45	2,614	8	2,538	21.50	2,691	88	2,897	30.83	3,252	<u>2</u>	3,455	3	3,644	55.55
September	2,938	23.91	2,787	23.46	2,860	S. 1.08	2,852	23.97	3,038	23.59	3,273	23.56	3,626	24.36	3,767	24.04	3,878,	23.97
December	3,784	30.79	3,825	32.20	3,681	30.90	3,764	31.63	4,141	32, 15	4,613	33.21	4,666	31.34	4,95.0	31,90	5,068	31.33
Unknown.	=	8.	C1	0.	9	છ	7	01:	Ξ	8.	7	<b>8</b> 9.	<del>~</del>	કુ	65	8	=	.07
Average	3,072	8.00	2,370	25.00	2,978	35.00	2,975	25.00	3,220	8.00	3,473	25.00	3,722	8.00	3,918	8.00	4,045	93.00

. Including marriages in unknown quarter of the year.

Exhibit A shows the number and per cent of marriages as originally returned and published in the Reports for each of the years 1877-1882. It differs from Table I. inasmuch as it does not contain the additional number of marriages which have been added to the years previous to 1882. By comparing the Exhibit with the Table it may be seen how frequently the marriage law is violated in this State.

EXHIBIT A.—Marriages by Quarters of the Year, showing number and Por Cent in each Quarter of the Year, for each of the Years 1874 to 1882, inclusive, as Originally Returned and published in Reports.

Num.   Per   Num.   Cent.   Der.   Der.   Cent.   Der.   TOTALS, AND MONTHS		1874.	1875.	5.	1876.	6.	1877.	7.	1878.	zi	1879.	ei.	1880.		1881	31.	1882.	oi	
11,041         100.00         11,055         100.00         10,858         100.00         11,000         100,221         100,00         13,221         100,00         13,222         100,00         13,222         100,00         13,222         100,00         13,222         100,00         13,222         100,00         13,222         100,00         13,222         100,00         13,222         100,00         13,222         100,00         13,222         100,00         13,222         100,00         13,222         100,00         13,222         100,00         22,34 </th <th>WITH WHILL QUARTERS END.</th> <th></th> <th>Per Cent.</th> <th>Num- ber.</th> <th>Per Cent.</th> <th>Num- ber.</th> <th>Per Cent.</th> <th>Num- ber.</th> <th>Per Cent.</th> <th>Num. ber.</th> <th>Per Cent.</th> <th>Num. ber.</th> <th>Per Cent.</th> <th>Num- ber.</th> <th>Per Cent.</th> <th>Num- ber.</th> <th>Per Cent.</th> <th>Num- ber.</th> <th>Per Cent.</th>	WITH WHILL QUARTERS END.		Per Cent.	Num- ber.	Per Cent.	Num- ber.	Per Cent.	Num- ber.	Per Cent.	Num. ber.	Per Cent.	Num. ber.	Per Cent.	Num- ber.	Per Cent.	Num- ber.	Per Cent.	Num- ber.	Per Cent.
2,632         25.64         2,519         22.77         2,547         22.94         2,633         23.79         2,901         23.74         3,039         22.08           2,483         22.46         2,547         2,477         24.42         22.70         2,006         21.32         2,306         21.33         22.08         2.00         2,306         23.78         3,108         20.08         20.08         20.08         20.08         20.08         20.08         20.08         20.08         20.08         20.08         20.08         20.08         20.08         20.08         20.08         20.08         20.0	Totals.			11,065	100.00	10,858	100.00	11,009	100.00	12,221	100.00	13,225	100,00	14,149	100.00	14,847	100.00	16,178	100.00
2,483         22.46         2,567         23.13         2,474         22.77         2,422         22.00         2,606         21.32         2,906         21.32         2,906         21.32         2,906         21.22         2,507         21.22         2,507         2,507         2,646         24.03         2,906         23.78         3,133         23.60         21.22         25.00         23.79         24.03         2,906         23.78         3,133         23.60         23.60         23.78         3,133         23.60         23.60         23.79         24.03 <th< td=""><td>March</td><td></td><td>83</td><td>2,519</td><td>22.79</td><td>2,590</td><td>23.94</td><td>2,633</td><td>23.92</td><td>2,301</td><td>23.74</td><td>3,030</td><td>22.08</td><td>3,261</td><td>23.05</td><td>3,376</td><td>22.74</td><td>3,577</td><td>22.11</td></th<>	March		83	2,519	22.79	2,590	23.94	2,633	23.92	2,301	23.74	3,030	22.08	3,261	23.05	3,376	22.74	3,577	22.11
2,713         24,67         24,65         2,646         24,06         24,06         24,07         2,677         24,65         2,646         24,03         2,906         23,78         31,33         23,68           3,003         27,20         3,333         3,106         28.60         3,298         29,06         3,798         31,08         4,243         32.06           10         .09         1         .01         3         .03         10         .09         4         .03           2,790         25.00         2,713         25.00         2,752         25.00         3,06         25.00         3,06         25.00         25.00         25.00         20.00         2,00         25.00	June		8	2,557	23.13	2,474	22.79	3,422	22.00	2,606	21.32	2,806	21.22	3,151	22.27	3,368	8	3,644	25
3,003 27.20 3,353 3,106 28.00 3,298 29.00 3,798 31.08 4,243 32.08 1 .09 1 .09 10 .09 4 .03 2,760 25.00 2,764 25.00 2,715 25.00 2,765 25.00 3,065 25.00 25.00	September			2,625	23.74	2,677	24.65	3,646	24.03	2,906	23.78	3, 133	23.69	3,472	24.54	3,630	24.45	3,878	23.97
10         .08         1         .01         3         .03         10         .09         10         .08         4         .03           9,780         25.00         2,764         25.00         2,715         25.00         2,752         25.00         3,065         25.00         3,306         25.00	December.			3,353	30.33	3,105	28.60	3,298	30.90	3,798	31 08	4,243	33.08	4,262	30.12	4,471	30.11	5,068	31.33
\$,760 25.00 2,764 25.00 2,715 25.00 2,752 25.00 3,065 25.00 3,306 25.00	Unknown.	9 	8.	-	.01	65	s.	2	8.	2	8.	*	<u>ස</u>	რ	8	¢1	.00	11	.07
	Average .		83	2,764	25.00	2,715	25.00	2,752	25.00	3,065	92.00	3,306	25.00	3,537	25.00	3,712	85.00	4,045	25.00

· The number in unknown quarter of year included.

TABLE II.—Marriages by Months, Arranged in Order by Number, Months
Corrected for additional returns

	]	1874.			1875.			1876.			1877.		j	1878.	
R.	Months.	Num- ber.	Per Ct. of Total.	Months.	Num- ber.	Per Ct. of Total.	Months.	Num- ber.	Per Ct. of Total.	Months.	Num- ber.	Per Ct. of Total.	Months.	Num- ber.	Per Ct. of Total.
ORDER.	Total	12,289	100.00	Total	11,879	100.00	Total	11,913	100.00	Total	11,899	100.00	Total	12,890	100.00
1	Dec	1,370	11.15	Dec	1,311	11.04	Dec.	1,257	10.55	Dec	1,281	10.77	Oct	1,406	10.92
2	Nov	1,246	10.14	Oct	1,273	10.72	Oct	1,255	10.54	Oct	1,250	10.50	Dec	1,398	10.85
3	Oct	1,168	9,51	Nov	1,241	10.45	Nov	1,169	9.81	Nov	1,233	10.36	Nov	1,337	10.38
4	Sept	1,048	8.53	July .	999	8.41	July_	1,060	. 8.90	Sept	1,112	9.35	Sept	1,190	9.24
5	July .	1,015	8.26	Sept	990	8.33	Sept.	1,018	8.55	Jan	976	8.20	Jan	1,092	8.48
6	Jan	997	8.11	Apr	938	7.89	Apr	963	8.08	July.	949	7.98	Mar	1,022	7.93
7	Feb	984	8.00	Mar	921	7.75	Jan	959	8.05	Apr	945	7.94	May	961	7.46
8	Mar	971	7.90	Мау	909	7.65	Feb	882	7.40	Mar	883	7.42	Apr	952	7.39
9	Apr	967	7.87	Jan	870	7.32	May	878	7.37	Мау	808	7.29	July.	947	7.35
10	Aug	875	7.12	June.	818	6.89	Mar	872	7.32	Feb	854	7.18	Aug	901	7.00
11	May	847	6.89	Feb	809	6.81	June.	803	6.74	Aug.	791	6.65	Feb	885	6.87
12	June.	790	6.43	Aug.	798	6,72	Aug	791	6.64	June.	745	6.26	June.	778	6.04
	Unk	11	.09	Unk	2	.02	Unk.	6	.05	Unk	12	.10	Unk	11	.09
	Av	1,024	8.33	Av	990	8,33	Av*	993	8.33	Av	992	8.33	Av	1,073	8.33

<sup>.</sup> Includes those for unknown month.

The foregoing table shows the number and percentage of marriages in Michigan in each month of the year 1882, together with the number and percentage in each month for the years 1874–1880. It will be seen that the order of proportion followed the rule of previous years, that is, the largest number of marriages was solemnized during the months of October, November, and December.

having the greatest number first, for the Years 1874 to 1882, inclusive, up to December 17, 1883.

	1879.			1880.			1881.			1882.	
Months.	Num- ber.	Per Ct. of Total.	Months.	Num- ber.	Per Ct. of Total.	Months.	Num- ber.	Per Ct. of Total.	Months.	Num- ber.	Per Ct. of Total.
Total	13,892	100.00	Total	14,888	100.00	Total	15,671	100.00	Total	16,178	100.00
Oct	1,583	11.39	Nov	1,617	10.86	Dec	1,692	10.80	Nov	1,727	10.68
Nov	1,548	11.14	Dec	1,572	10.56	Nov	1,654	10.55	Oct	1,709	10.56
Dec	1,482	10.67	Oct	1,477	9.92	Oct	1,653	10,55	Dec	1,632	10,09
Sept	1,272	9.16	Sept	1,393	9.36	Sept	1,402	8.95	Sept	1,429	8.83
Jan	1,080	7.77	Jan,	1,181	7.93	July	1,277	8.15	July	1,323	8.18
July	1,073	7.72	Apr	1,164	7.82	May	1,188	7.58	Apr	1,305	8.07
Mar	1,032	7.43	July	1,158	7.78	Jan	1,187	7.57	Jan	1,240	7.66
May	1,022	7.36	Mar	1,100	7.39	Mar	1,176	7.50	Мау	1,222	7.55
Feb	993	7.15	Aug	1,075	7.22	Apr	1,142	7.29	Mar	1,202	7.43
Apr	990	7.13	Feb	1,060	7.12	June	1,125	7.18	Feb	1,135	7.02
Aug	928	6.68	May	1,057	7.10	Aug	1,088	6.94	Aug	1,126	6.96
June	885	6.37	June	1,031	6.92	Feb	1,064	6.92	June	1,117	6.90
Unk	4	.03	Unk	3	.02	Unk	3	.02	Unk	11	.07
AVa	1,158	8.33	Av	1,241	8.33	Av	1,306	8.33	Av	1,348	8.33

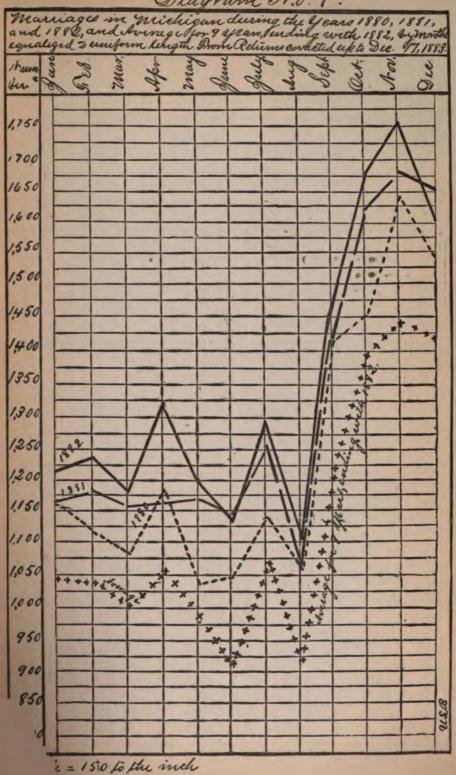
a Includes those for unknown month.

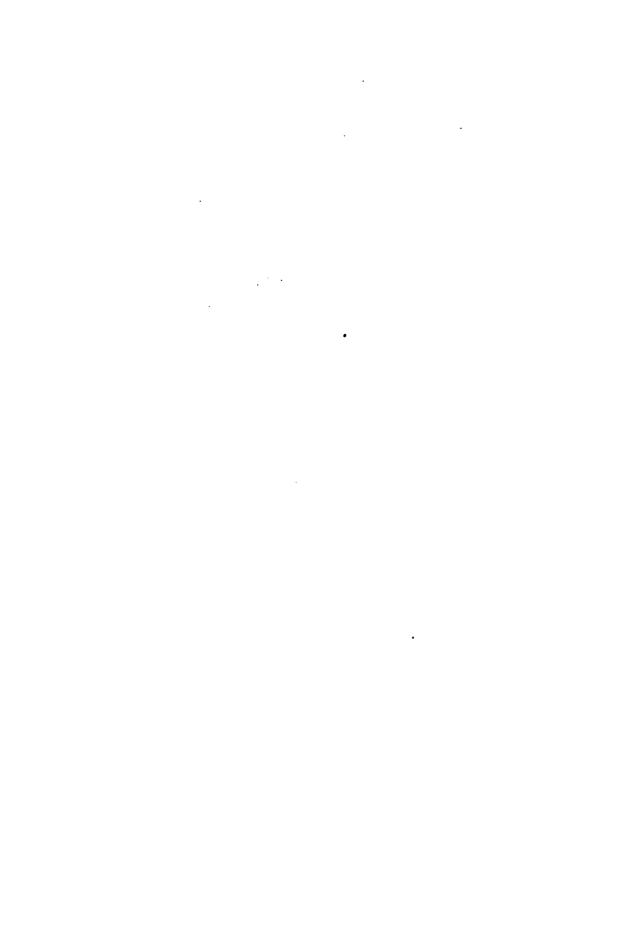
In Exhibit B the number of marriages in Michigan is shown for each of the years 1874-1882, by months, as returned, and as equalized to uniform length. In this Exhibit, all the years are corrected for additional returns up to December 17, 1883, which has increased the number of marriages in the several years over that shown in the corresponding exhibit in the preceding Report.

CHIBIT B.—Marriages Returned as having been Solemnized in Michigan during the Years 1874 to 1882, inclusive, Corrected for additional returns up to December 17, 1883, and emplised to Months of 30,44 days each.

								Mo	MONTHS.				1		
	Y EAES.	TOTAL.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk
areturned and the months should be in- adreadable by which the months should be in- alminished to equalize them to uniform length ich the marringes should be increased or di- equalize them to months of uniform length.	1874	12,289	997 56 18	984 + 2.44 + 86	971 -56 -18	967 +.44 + 14	847 -56 -156	790 +,44 + 12	1,015	875 66 -12	1,018	1,168	1,246	1,370	=
alized to months of uniform length		12,307	679	1,070	953	981	832	805	766	863	1,063	1,147	1,264	1,345	=
turned training the months should be intible to equalize them to uniform length the marriages should be intensed or diamize them to months of uniform length.	1875	11,879	870 56 -16	809 +2.44 +70	921 56 -17	938 4.+ 41.+	900	818 4.+ 51.+	-56	798	990 +.44 +.15	1,273	1,241	1,311	01
nalized to months of uniform length	_	11,880	13	879	106	952	803	830	981	781	1,005	1,250	1,259	1,987	64
us returned, which the months should be ingradiant and included the red minished to equalize them to uniform longth / which the marriages should be increased or district to equalize them to months of uniform length.	1876	11,913	959 56 -17	882 41.44 4.44	872 56 -16	268 44.4 11.4	878 56 16	808 ++.44 + 12	1,060	791	1,018	1,255	1,169	181 8	9
declages, equalized to months of uniform length	_	11,880	943	976	928	776	862	815	1,043	777	1,033	1,939	1,186	1,234	9
Days and hundredths by which the months should be increased or diminished to equalize them to uniform longth manner by which the marriages should be increased or diminished to equalize them to months of uniform length.	1877	11,899	976 56 -18	884 +244 +74	56	945 +.44 +14	808 56 -16	745 4.4 + 11	949	791	1,119	1,250	1,233	1881	21
Mariages equalized to months of uniform length		11,905	958	928	867	920	872	756	932	777	1,128	1,997	1,251	1,258	雪

Diagram No. 1





Marriages as returned Days and hundredths by which the months should be in- creased or diminished to equalize them to uniform length Number by which the marriages should be increased or di- minished to equalize them to months of uniform length.	1878	12,880	1,002	42.4 + 11.4 + 11	1,029	959 +.4 +.11	1961	4.4 + 11	947 -56 -17	301	1,190 +.44 +.17	36,- 26,-	1,337	1,398	=
Marriages equalized to months of uniform length		12,881	1,072	363	1,004	996	944	789	930	8	1,207	1,381	1,357	1,373	=
Marriages as returned  Days and hundredths by which the months should be increased or diminished to equalize them to uniform length Number by which the marriages should be increased or diminished to equalize them to months of uniform length.	6781	13,892	1,080	993 + 2.44 + 87	1,032	990 +.41 +.15	1,022	886 + . + + . ± 13	1,073	928	1,272 +.44 +.19	1,583	1,548	1,482	4
Marriages equalized to months of uniform length		13,900	1,060	1,080	1,013	1,005	1,004	808	1,054	пв	1,291	1,554	1,571	1,455	-
Marriages as returned  Days and hundredths by which the months should be increased or diminished to equalize them to uniform length Number by which the marriages should be increased or diminished to equalize them to months of uniform length.	1880	14,888	1,181	1,060	1,100	1,164	1,057	1,031	1,158	1,075	1,393	1,477	1,617	572,1 95 89	60
Marriages equalized to months of uniform length		14,862	1,160	1,113	1,080	1,181	1,038	1,046	1,137	1,056	1,413	1,450	1,641	1,544	0.0
Marriages as returned  Days and hundredths by which the months should be increased or diminished to equalize them to uniform length Number by which the marriages should be increased or diminished to equalize them to months of uniform length.	1881	15,671	1,187	1,084	1,176	1,142	1,188	1,195	12.1 25.	1,088	1,402	30'-	16. ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ± ±	1,692	00
Marringes equalized to months of uniform length		15,677	1,166	1,178	1,155	1,159	1,167	1,149	1,254	1,068	1,423	1,623	1,678	1,061	92
Maringes as returned  Days and hundredths by which the months should be increased or diminished to equalize them to uniform length Number by which the marriages should be increased or diminished to equalize them to months of uniform length.	1882	16,178	1,240	1,135 + 2.44 + 99	1,302	1,305	1,999 36 99	1,117	1,333	1,126	1,439	1,709	1,727, 1	1,632	=
Marriages equalized to months of uniform length	_	16,188	1,218	1,234	1,180	1,394	1,200	1,138	1,299	1,106	1,450	1,678	1,752	1,603	11

Table III. shows the number of marriages, by months, as returned from each county in the State during the year 1882. Nearly all the counties show an increase over the number returned for 1881.

TABLE III.—Distinguishing, by Counties and by Months, the Number of Marriages returned as having been solemnized in Michigan during the Year ending December 31, 1882.

STATE	Year,						Mon	тнв, 1	882.					
AND COUNTIES.	1882.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
STATE	16,178	1,240	1,135	1,202	1,305	1,222	1,117	1,323	1,126	1,429	1,709	1,727	1,632	11
Alcona	22	1		3	1	3	2	5		1	3	2	1	
Allegan	397	26	23	32	45	29	26	29	23	32	34	49	49	
Alpena	113	4	6	3	9	6	8	23	14	6	14	14	6	
Antrim	62	4	5	4	2	9	5	6	2	3	. 8	6	8	
Baraga	12		2	1	2	2			1		2	2		
Barry	199	13	14	20	15	14	7	17	13	15	19	23	29	<b>.</b>
Вау	336	30	21	21	27	26	25	36	29	32	37	31	21	
Benzie	31	4	3	1	. 5	1	1	4	2	2	1	5	2	
Berrien	546	48	32	41	38	40	31	32	44	64	67	50	- 58	1
Branch	321	28	24	23	34	19	23	15	18	33	34	38	30	2
Calhoun	341	29	27	36	23	24	21	19	17	29	30	46	40	<b> </b>
Cass	189	2	4	16	18	16	21	17	15	23	25	25	7	
Charlevoix .	72	9	3	2	6	2	7	13	6	4	.2	6	12	
Cheboygan.	50	9	3	3	1	5	5		3	5	11	2	3	<b></b>
Chippewa	49	4	2	2	4	10	1	7	4	6	4	3	2	
Clare	50	3	4	. 3	3	9	3	2	3	2	6	8	3	1
Clinton	201	16	17	17	17	16	12	17	11	14	25	29	10	
Crawford	14	1		1	3	3			1	2	1		2	<b></b>
Delta	96	3	4	6	6	5	8	7	8	7	15	17	10	
Eaton	246	14	19	37	23	16	11	12	11	21	22	29	28	 
Emmet	78	8	8	6	6		5	5	9	4	9	6	8	
Genesee	346	31	26	26	25	29	18	27	21	31	45	37	30	 
Gladwin	6		1	1	3	<b></b>				1				<b>.</b>
Gr. Traverse	88	4	3	8	7	9	3	9	9	20	7	5	4	
Gratiot	213	11	10	21	19	13	12	30	15	20	24	20	18	
Hillsdale	413	37	25	31	42	27	24	29	20	31	54	39	53	1
Houghton	218	10	12	6	11	27	20	20	25	19	33	23	12	
Huron	1	10	5	7	9	10	7	9	4	11	20	16	6	
Ingham	l	35	14	21	20	20	24	20	20	22	38	35	42	l

## MARRIAGES BY COUNTIES, BY MONTHS.

# TABLE III.—CONTINUED.—Marriages, by Counties, by Months.

	Year,	1					Mon	THS, 1	882.					
COUNTIES.	1882.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oét.	Nov.	Dec.	Unk
Ionia	275	20	30	_ 22	20	15	15	21	16	18	42	28	28	
Iosco	71	2	5	5	6	8	- 8	13	7	6	3	8	5	
Isabella	96	9	8	12	9	6	11	12	3	3	9	6	8	
Isle Royal														
Jackson	364	32	33	40	28	25	23	25	25	33	30	40	30	
Kalamazoo	297	34	27	34	20	25	22	19	16	24	33	33	10	
Kalkaska	32	2	9	1	6	2	2	2	1	3	4	3	4	
Kent	922	68	72	69	71	84	72	87	63	82	66	89	98	1
Keweenaw .	28	4	2		3	2		4	3	1	4		- 5	
Lake	37	2	1	2	2	1	2	7	3	4	7	2	4	
Lapeer	227	15	15	20	15	20	12	24	10	22	28	24	22	
Leelanaw	43	1	1	2	5	2	4	6	4	3	2	3	10	
Lenawee	504	49	38	46	43	33	22	34	37	48	52	46	56	
Livingston	175	13	21	15	17	12	13	14	6	12	16	18	18	
Mackinac	25		1					2	6	3	5	5	3	
Macomb	248	11	24	17	22	16	12	14	14	24	29	32	33	***
Manistee	196	18	14	10	12	21	14	17	15	15	20	18	22	
Manitou	7	3			2				1		1	*****		
Marquette	315	.25	11	10	21	19	34	30	28	37	45	32	23	****
Mason	111	6	4	6	14	11	9	7	8	11	12	11	12	
Mecosta	192	16	12	12	9	13	15	13	21	23	24	17	17	
Menominee.	189	11	11	7	8	13	21	13	14	21	20	26	23	1
Midland	55	5	2	3	3	2	5	2	3	3	7	6	14	
Missaukee	15			1	4	:3		1	2		1	1	2	
Monroe	349	27	27	26	35	21	20	26	22	29	40	44	32	
Montcalm	346	21	38	30	32	19	17	38	23	20	34	39	35	
Montmorency	3								1	1		1		
Muskegon	370	23	22	19	27	18	27	40	31	29	38	49	47	
Newaygo	138	13	11	2	7	13	6	19	13	17	10	9	18	
Oakland	309	20	26	31	22	17	17	12	24	31	37	32	40	
Осеана	106	6	7	9	5	6	9	10	5	9	12	20	8	
Ogemaw	13		2	2			2	3	1			1	-2	
Ontonagon	17		2		2	1	2	3	3	1	3			
Osceola	145	9	6	10	12	10	7	12	14	16	13	19	17	
Oscoda	6				2	1				1	1		1	
Otsego	25	1		-3	3	3		2	4		4		5	
Ottawa	373	28	25	24	38	33	22	24	28	34	39	39	38	1

TABLE III.—CONTINUED.—Marriages, by Counties, by Months.

<u>.</u>	Year,						Mon	TH8, 1	1882.					
COUNTIES.	1882.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk
Presque Isle	31	6	2		8	3	1	4	. 2		1	5	4	
Roscommon.	8			1	1	2				1		1	2	
8aginaw	604	53	36	36	51	50	41	58	39	54	58	66	62	<b></b> .
Sanilac	201	13	15	8	20	16	18	21	15	15	14	16	29	
Schoolcraft.	19		2	1			1	2	4	5	2	1	1	<b> </b>
Shiawassee .	197	23	10	16	15	16	14	9	12	16	16	25	25	<b> </b>
St. Clair	422	32	30	26	37	28	. 31	35	34	44	45	40	40	ļ
St. Joseph	326	26	29	29	22	18	16	29	21	20	35	41	40	<u></u> .
Tuscola	257	13	18	18	14	26	16	27	1.4	26	41	26	18	<b>.</b>
Van Buren	287	10	22	35	23	29	18	29	16	19	21	26	39	<b> </b> .
Washtenaw.	384	29	23	43	32	27	22	20	31	24	33	48	51	
Wayne	1,576	140	127	96	128	130	160	112	109	145	153	153	122	
Wexford	106	7	4	4	10	8	9	9	6	13	9	12	15	<b></b> .

### COLOR OF PERSONS MARRIED.

For the year 1882, the marriage-rate appears slightly greater among the White inhabitants than among the Black and Mulatto races, and least among the Indians. By reference to Exhibit 9, and Table XVII., of Births, it will be seen that the illegitimate birth-rate is greatest among the Indians, and here it is seen that the marriage-rate is smallest among the Indians. In computing the marriage-rate, the population of Michigan in 1880 is used with the marriages in 1882, and as the population has probably increased, the rates here given are not entirely perfect.

Table V. shows the color of persons married in 1882 in each county of the State.

TABLE IV.—Exhibiting, by Color and by Sex, the Number of Marriages, and the Number and Per Cent of Total Number of Persons Married in Michigan during the Year 1882, according to the Returns; and the Per Cent of Persons Married in 1882 to Population in 1880.

		Population		PERSONS 18	MARRIED,	Per Cent of Persons Married	Number of Persons
COLOR,-1882.	SEX.	June 1, 1880, Represent- ed by Marriages in 1882,	Number of Marriages, 1882,	Number.	Per Cent of Total.	in 1882 to Popula- tion June 1, 1880, by Sex and Color.	who Married those of another
	[Total	• 1,636,882	16,178	32,356	100.00	1.98	53
All Colors	. Males	862,324		16,178	50,00	1.88	27
	[Females.	774,558		16,178	50.00	2.09	26
	[Total	1,614,505	15,956	31,914	98.63	1.98	13
White	- Males	850,765		15,958	49.32	1.88	7
	Females.	763,740		15,956	49.31	2.09	6
	[Total		90	175	.53		13
Black	- Males			90	.27		9
	Females.			85	.26		4
	[Total		57	117	.37		17
Mulatto	. Males			57	.18		7
	(Females.			60	.19		10
	[Total	7,249	54	111	.35	1.53	10
Indian	Males	3,696		54	.17	1.46	4
	Females	3,553		57	.18	1.60	6
	[Total		21	39	,12	**********	
One or Both Unknown	. Males			19	.06		
	Females			20	.06		
	[Total	15,100	147	292	,90	1.93	30
Black and Mulatto	. Males	7,835	********	147	.45	1.88	16
	Females.	7,265		145	,45	2.00	14

<sup>.</sup> Includes 28 Asiatics.

TABLE V.—Exhibiting for the State and Counties, the Number of Marriages Keturned as having been Solemnized in Michigan during the Year 1882, the Number of Couples of White Persons, and by Color, the Number of Marriages where one or both parties were other than While.

CTATE	!	Cozo	R OF PE	mozs M	BRIED, 1	882, STATE	D BY Coul	PLES.
STATE AND COUNTIES.	Marriages.	White.	! !	Mulatto.	Indian.	Female Unknown, Male White.	Male Unknown, Female White.	Both Unk.
State	16,178	• 15,956	> 90	• 57	4 54	2	1	18
A10093	. 22	22	İ			•••••		
Allegan	397	• 394	1 2			1		¦
Alpena	113	113						
Antrim	e	61		<b>;</b> ,	1			<b> </b>
Baraga	12	9	<b> </b>		3			<b> </b>
Barry	199	s 198		1			•••••	
Bay	336	331	<b> </b>		5			
Benzie	31	31						
Berrien	346	230	h 7	3		1	1	4
Branch	321	321						
Calhonn	341	335	1 3	2 د				
Cass	189	188	<b> </b>	1				
Charlevoix	72	72						
Chehoygan	50	49			k 1			
Chippewa	49	49						
Clare	50	50						
Clinton	201	201						
Crawford	14	14	 					
Delta	96	90			1 6			
Eat/m	246	246						
Kmmet	78	m 70		n 1	0 7			
()enesee	346	343	3					
Gladwin	6	6						
Grand Traverse	88	88						
Gratiot	213	213						

a Includes I couple, male White, female Indian; 5 couples, male White, female White and Indian; and I couple, male White, female Mulatto.

• Includes 21 couples "Colored," 16 couples "African;" 8 couples, male Black, female Mulatto; and I couple, male Black, female White.

• Includes 4 couples, male Mulatto, female Black; and 3 couples, male Mulatto, female White.

White. "des 4 couples White and Indian; 1 couple,

<sup>&#</sup>x27;te and Indian, female White; I couple,
'an, female Mulatto; I couple, male Ine White; and I couple, male Indian,
ite and Indian.

<sup>• 1</sup> couple, male White, female Indian.

1 2 couples "African."

2 l couple, male White, female White and Indian.

ian.

h 3 couples "Colored."

1 3 couples "African."

1 1 couple, male Mulatto, female Black.

k 1 couple White and Indian.

1 1 couple, male White and Indian, female White White.

m 1 couple, male White, female Mulatto.
n 1 couple, male Mulatto, female White.
o 2 couples White and Indian.

TABLE V.—CONTINUED.—Marriages in 1882, by Counties, by Color.

	Marie To	- (	COLO	R OF PER	ISONS MA	ARRIED, J	1882, STATE	D BY COUI	LES.
COUNTIES.	Marriages, 1882.	Wh	Ite.	Black.	Mulatto.	Indian.	Female Unknown, Male White.	Male Unknown, Female White.	Both Unk.
Hillsdale	413		413		4				
Houghton	218		218						
Huron	114		114						
Ingham	313		309	n 2	1	ь 1	********		
Ionia	275		275						
Iosco	71		71						
Isabella	96		95			1			
Jackson	364		349	c 13	2				
Kalamazoo	297		289	4 3	5				
Kalkaska"	32		32						una
Kent	922		911	* 6	3		4		
Keweenaw	28		28					*********	
Lake	37		37						
Lapeer	227		227						
Leelanaw	43		29			f 14			*****
Lenawee	504		502	g 2					
livingston	175		174	1 1					
lackinae	25	1	23			1 2			
Iacomb	248		248						
fanistee	196		196						
anitou	7		7						
arquette	315	lt.	312	1 2	1				
ason	111		107	1	1	2			
ecosta	192		191	11					
enominee	189		189						
idland	55		54		1				
issaukee	15		15			*******			
onroe	349		349						
ontealm	346		344	1 1					1
ontmorency	3		3						
	370		100			1			1

<sup>\* 1</sup> couple, male Black, female Mulatto.

b 1 couple, male Indian, female Mulatto.

c 2 couples "African;" 1 couple "Colored;" and 2 couples, male Black, female Mulatto.

d 2 couples, male Black, female Mulatto.

d 2 couples, male Black, female Mulatto.

1 couple, male Indian, female White; and 1 couple, male Indian, female White and Indian.

1 couple, male Indian, female White and Indian.

1 couple, male Indian, female White and Indian.

1 couple, male Indian, female White and Indian.

TABLE V.—CONTINUED.—Marriages in 1882, by Counties, by Color.

	l i							
		Colo	OF PER	SONS MA	RRIED, 1	SSZ, STATE	D BY COUP	LES.
COUNTIES.	Marriages, 1882.	White.	Black.	Mulatto.	Indian.	Female Unknown, Male White.	Male Unknown, Female White.	Both Unk.
Newaygo	138	138						
Oakland	309	302	1					6
Oceana	106	102			4			
Ogemaw	13	13						
Ontonagon	17	16			A 1			
Osceola	145	145						
Oscods	6	6						
Otsego	25	25						
Ottawa	373	371			2			
Presque Isle	31	31					,	
Roscommon	8	8						
Saginaw	604	594	3	ъ 6	1			
Sanilac	201	, 200		1				
Schoolcraft	19	19						
Shiawassee	197	197						
St. Clair	422	417	2	2	1			
St. Joseph	326	323	1	2	<u> </u>			
Tuscola	257	257	<u> </u>	ļ <u>.</u>				
Van Buren	287	281	3	2	1			
Washtenaw	384	365	. 7	4 8	<u> </u>			4
Wayne	1,576	1,536	• 26	f 13				1
Wexford	106	106	<u> </u>					
	1 -30		1		1		1	

a l couple White and Indian. b l couple, male Mulatto, female White. c 2 couples, male Black, female Mulatto. d 2 couples, male Mulatto, female Black.

<sup>• 12</sup> couples "Colored;" 4 couples "African;" 1 couple, male Black, female White; and 1 couple, male Black, female Mulatto.

f 1 couple, male Mulatto, female White; and 1 couple, male Mulatto, female Black.

#### NATIVITY OF PERSONS MARRIED.

Exhibit 1 is designed to show the number of marriages, according to the nativity of the parties, for the year 1882. It is seen that 9,407 native-born bridegrooms married brides native of this country, 1,411 married foreign-born brides, and 58 married brides of unknown nativity, making a total of 10,876 native-born bridegrooms. Of the native-born brides, 9,407 married native-born males, 2,017 married foreign-born males, and 27 married males of unknown nativity, making a grand total of 11,451 native-born brides. The number of foreign-born bridegrooms and brides may be read in a similar manner.

Exhibit 1 also shows that 67.23 per cent of the males and 70.78 per cent of the females married in 1882 were native-born, that 32.22 per cent of the males and 28.37 per cent of the females were foreign-born. As compared with the years 1880 and 1881, the proportion of native-born males and females shows a decrease from year to year, while the proportion of foreign-born males and females shows a corresponding increase. For instance, the per cent of native-born males in 1880 was 70.38; in 1881, 68.12; and in 1882, 67.23. Of the foreign-born males, the per cent in 1880 was 28.44; in 1881, 30.96; and in 1882, 32.22. The per cent of native-born females in 1880 was 75.43; in 1881, 72.30: and in 1882, 70.38. Of foreign-born females, the per cent in 1880 was 22.75; in 1881, 26.20; and in 1882, 28.37.

The cause of this may possibly be found in the large influx of immigrants of marriageable age from foreign countries during the last few years, which

has added largely to the number of marriages.

The increase in the mixed marriages from year to year is also worthy of notice. The term "mixed" is where one party is of native and the other of foreign birth.

EXHIBIT 1.—By Nativity, the Number and Per Cent of Brides and of Bridegrooms Returned as having been Married in Michigan during the Year ending December 31, 1882, and by Number, the manner of their Union by Nativity.

		Bi	RIDES, 18	382.	BRIDEG:	
	EGROOMS AND BRIDES, ATIVITY SPECIFIED.	Native- born,	Foreign- born.	Un- known.	Total of each Nativity, and of all Nativ- ities.	Per Cent of each Nativ- ity.
	Native-born	9,407	1,411	58	10,876	67.28
Bridegrooms	Foreign-born	2,017	3,173	23	5,213	32.22
	Unknown	27	6	56	89	.55
	Whole No. of each nativity, and total	11,451	4,590	137	16,178	
Brides	Per cent of each nativity, and total.	70.78	28.37	.85		100.00



#### AGES OF PERSONS MARRIED.

The average age of persons married in Michigan, by nativity, for each of the years 1876-1882 may be seen in the following exhibit. The average age of brides and grooms shows a remarkable uniformity from year to year; about the only change worthy of note in the year 1882 is a slight advance over that of previous years.

EXHIBIT C.—By Nativity, the Average Age of Persons Married in Michigan in 1876-1882, inclusive, according to the Returns.

NATIVITY OF	18	76.	18	77.	18	78.	187	79.	188	30.	188	81.	188	82.
PERSONS MARRIED.	Males.	Fe. males.	Males.	Fe. males.	Males.	Fe. males,	Males.	Fe. males.	Males.	Fe- males.	Males.	Fe.	Males.	Fe-
All Nativities	28, 19	23.05	28.25	23.06	28.01	22.91	28.01	23.00	28.08	23,20	28.09	23.20	28.17	23.30
Native	27.64	22.53	27.76	22,59	27.46	22.54	27.48	22.65	27.59	22 82	27.49	22.83	27.69	23,01
Foreign	29,54	24.82	29.53	24.63	29,51	24.28	29.42	24.28	29.29	24.42	29.33	24,20	29,17	24.35
Unknown	27.94	23.32	27.75	24.36	28.82	23.62	28.00	24.33	28.31	23.37	31.43	23.83	28.70	23.8

Table VII. contains much that is valuable and worthy of study. It shows the total number of persons married in Michigan in 1882, and the percentages

of the sexes married in the different divisions of age.

In the class of females married between twenty and twenty-five years of age, the proportions show a gradual increase from 35.68 per cent in 1876 to 40.67 per cent in 1881; in 1882, however, the percentage, in that period of life to the whole number of females married during the year, dropped back to 38.86 per cent.

The proportion of males between twenty and twenty-five, for the same years, has not changed very much from year to year, it being 40.60 per cent in 1876

and 40.02 per cent in 1882.

The proportion of males, married in the various periods of age above

twenty-five, has increased slightly for the same series of years.

The proportion of females, married under twenty years of age, has decreased from 38.20 per cent in 1877 to 32.90 per cent in 1882. The proportion of males, married under 20, has also decreased but in not so marked a degree as the females.

The general tendency, therefore, of the people of Michigan seems to be to postpone the marriage relation to a more advanced age of life.

TABLE VII.—By Sex, and Periods of Age, the Number and Per Cent of Total Number of Persons Married at each Age and Period of Age, during the Year 1882; and the Per Cent of each Sex at each Age and Period of Age to the Total Number of both Sexes.

			МА	RETAGES,	1882.		
AGES IN YEARS	-		MALES			FEMALE	5.
AND PERIODS.	Total Number of Perons Married, 1882.	Number Married.	Per Cent of Total Marri- ages.	Per Cent of Persons Married at Correspond- ing Ages.	Number Married.	Per Cent of Total Marri- ages.	Per Cent of Persons Married at Correspond- ing Ages.
All Ages	32,356	16,178	100.00	50.00	16,178	100.00	50,00
12	1				1	.01	190.00
13	2				2	.01	100.00
H	23				23	.14	100.00
15	142				142	.88	100.00
16	885	2	.01	.23	883	5.46	99.77
II	1,120	10	.06	.89	1,110	6.86	99.11
18	1,746	94	.58	5.38	1,652	10,21	94.62
19	1,779	200	1.66	15.12	1,510	9.33	84.88
00	2,214	633	3.91	28.59	1,581	9.77	71.41
21 to 25	10,547	5,841	30.11	55.38	4,706	29,09	44.63
25 to 30,	7,140	4,874	30.13	68.26	2,966	14.01	31.7
10 to 35	2,743	1,861	11.51	67.84	882	5.46	32.1
5 to 40	1,487	900	5.94	64.56	527	3.26	35.4
10 to 45	824	321	3.22	63.23	303	1.87	36.7
is to 30	349	349	2.16	63,57	200	1.23	36.4
10 to 33	404	254	1.57	62.87	150	.93	37.1
S to (0,	219	159	.38	72.60	60	.37	27.4
10 to 65	197	149	.92	75.63	48	.30	24.3
is to 70	88	63	.40	73.98	23	.34	25.1
70 to 75	23	49	.30	22,45	4	.00	7.5
75 to 80	14	13	.08	92.86	1	.01	7.1
so and over	5	5.	.03	300.00	**********		
Unknown ages	174	70	.43	80.25	304	.64	59.7
Under M	26	*********			35	,16	100.0
15 to 20	5,672	523	2.22	9.61	5,297	32.74	93.3
20 to 23	12,761	0.674		20.72	6,257	38.86	49.9

Exhibit 2 shows each age, and at the age aged eig married in Michigan at ess of grooms appears les appears for those-

EXHIBIT 2.—Number of Persons Returned as having been Married in Michigan in 1882, by Sex, and Excess of the Sexes, by Age in Years.

7010	Pens	ONS MAR		77	1		Pens		g Aye	There	-
Age in		ONB MAR IN 1882		EXC	ESS.	Age in		ONS MAR IN 1882.		Exc	255,
Years.	Total.	Males.	Fe- males.	Males.	Fe- males.	Years.	Total.	Males.	Fe- males.	Males.	Fe- males.
Allages	32,356	16,178	16,178	6,073	6,073	48	113	83	30	53	
12	4		1		1	49	89	49	40	9	
13	2		2		2	50	124	72	52	20	
14	23		23		23	51	83	51	32	19	
15	142		142		142	52	77	57	20	37	
16	885	2	883		881	53	65	40	25	15	
17	1,120	10	1,110		1,100	54	55	34	21	13	
18	1,746	94	1,652		1,558	55	56	40	16	24	
19	1,779	269	1,510		1,241	56	52	38	14	24	
20	2,214	633	1,581		948	57	35	23	12	11	
21	2,777	1,317	1,460		143	58	47	37	10	27	
22	2,764	1,452	1,312	140		59	29	21	8	. 13	
23	2,611	1,549	1,062	487		60	64	49	15	34	
24	2,395	1,523	872	651		61	25	17	8	9	
25	1,969	1,286	683	603		62	52	40	12	28	
26	1,753	1,170	583	587		63	26	22	4	18	
27	1,360	967	393	574		64	30	21	9	12	
28	1,219	864	355	509		65	38	29	9	20	
29	839	587	252	335		66	25	19	6	13	
30	828	570	258	312		67	9	7	2	5	
31	506	364	142	222		68	10	5	5	******	
32	600	405	195	210		69	6	5	1	4	
33	436	279	157	122		70	18	16	2	14	
34	373	243	130	113		71	10	9	1	8	
35	389	269	120	149		72	13	12	1	11	
36	326	213	113	100		73	5	5		5	
37	279	163	116	47		74	7	7		7	
38	302	194	108	86		75	6	5	1	4	
39	191	121	70	51		76	4	4		4	
40	225	150	75	75		77	2	2		2	
. al	159	98	61	37		78	1	1		1	
42	204	138	66	72		79	1	1		1	
43	113	61	52	9		80	2	2		2	
1	123	74	49	25		81	1	1		1	
	135	94	41	53		82	1	1		1	
	103	58	45	13		84	1	1		1	******
	109	65	44	21		Unk	174	70	104		34

VIII.—Exhibiting for the State and Counties, by Sex, the Nativity and Age in Periods of Years, of Persons

1	3		HAO	Unkn	174	11	104	-4	11	11	11	11	01.01	44	101	11
	1882.	100	o Ao p	atti 08	1010	11	11	11	11	11	1.1	11	11	11	11	11
	ARS,	27	10	80,	122	11	11	11	11	11	11	11	11	-	H :	I
	N. A.	2	10	75.	5504	11	00	11	11	11	-!	-!	11	00 }	- !	III
	o squ	3	to	20	288	11	20	-	11	11	011	1	11		00.00	-
1882	PERIODS OF YEARS,	99	to	92.	197 149 48		200	11	11	нн	50 m	99.01	11	91	201	9
10	N.	13	to	.00	213 150 60 60	-	1-4	11	11	11	0101	61	11	201	91	1-01
31	STATED	20	to	99	155		98	-	00.03	11	10.01	000	11	6.9	01 01	104
per		3	10	20.	245 200 200 200	11	1.8	21	01	11	-	22.0	11	40	100	200
December	Aux	9	10	45.	824 521 308	-	1010	61	+	11	2010	20	11	201	1-0	16
	RENT	- 138	to	40.	1487 960 527	HH	12	91	00 FT	69 69	II.	900	01 01	88	14	21
iding	DIFFERENT AGES,	30	to	35.	2,743 1,861 882	1	14.89	10	000	81-	71	47	9	13.88	25.23	34
Year ending	AT	153	to	30.	7,140 4,874 2,266	1	199	38	17	02.01	97	96	910	167	712	28
_	MARRIAGES	20	to	25,	19,761 6,474 6,287	22	167	500	28	410	88	134	15.4	217	151	145
ing ti	M	Un-	der	30.	5,698 375 5,323	00	135	19	91 00	I	73	111	17	185	140	900
Married in Michigan during the		SEX	STATED.		Total Males	Males	Males	Males	Males	Males	Males	Males	Males	Males Females.	Males	Males
ichi	ES.	*uaou	Дид	Вогр	96	1	1	:	-	1	1	1	1	-	-	00
in M	Persons Married, 1882, stated by Couples.	OWN.	ales.	For- eign.	9		-	-	-	-		1	-	-	-	
pai.	TED BY	MALES UNENOWN.	Females.	Na- tive.	22		-	-	-	-		-	1	1	91	1
	82, STA	OWN.	es,	For-	हर			-				1	-	61	1	
1 been	11 (dEI	FEMALES UNENOWN.	Males,	Na- tive.	82		-	-	-	1	1	1	1	10	1	-
anın	S MARI	For- eign	males,	tive Males.	1,411	*	10	21	19	-	6	99	10	57	10	16
t as h	ERSON	For-	_	Fe- males.	2,017	4	88	18	10	-	14	23	*	41	77	251
urned as having	IY OF ]	Both	For-	Dorn.	3,173	9	57	99	10	9	-	103	64	90	00	13
Ret	NATIVI	Both	Na-	DOTH.		00	202	16	30	9	169	190	18	433	2882	280
		1882,	_		16,178 9,407	81	397	113	85	21	199	336	31	546	321	341
		AND	COUNTIES.		State	Alcona	Allegan	Alpena	Antrim	Baraga	Barry	Bay	Benzie	Berrien	Branch	Calhoun

-		11	11	11	11	44	10 10	5	-	64	11	11	14		нн	101	410
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01	11	11	11	11	11	11	11	11	11	11	11	11	+ !	11	11	91	11
20	11	11	11	+!	11	11	11	-1	1:	01 !	11	11	11	-	11	11	43
01-	11	11	11	11	01	11	11	G1	62.11	10 :	11	1-	+ 1		11	11	01
-10	11	11	11	11	11	11	- 1	00 01	11	10 00	11	11	401	901	11	-	02 04
01	4	11	11	11	00.01	11	11	09	1	01-	11	11	61-1	9 !	11	11	P- 80
77	28	11	11			11	-	00	61-	20-4	11	814	1-01	51.4	-	01-	010
-	01	11		7	9 4	11	11	20 60	01	00 10	11	-	10.01	11		0.8	140
21-	10-11	01	-	ଶଶ	000	11	-:	-1		22.8	11	101	49	011	41	00	100
20	410	01.01	400	0111	22	61	94	H 6		왕의	11	-1	10	18	0.00	10 00	10
22	20	400	4	901	17	-	814	175	10	43	11	10	212	5,8	311	14	36
\$55	20	90	62.80	17	19	461	27	15.13	88	95	GX :	37.00	88	105	36	92	18.21
189	28	823	128	110	2121	00.00	34	103	98	127	4	23 13	252	186	100	35	126
080	3.50	012	H	100	27.0	9	0,8	188	-88	H	9	0118	93	133	413	53	98
	es.	: 80	08.	68:	68.	68.	68	68.	68:	68.	98	100		: 8	68.	. 00	100
		10.7	10 T	00=	00	90	10-	100 ==	10-	107	10	90	00	- 00	m ==	100-	m =
Males	Males	Males	Males	Males.	Males	Males.	Males.	Males	Males	Males	Males	Males Female	Males	Males	Males	Wales.	Males
Females	Males Females.	Males	Males Females.	Males	Fomales.	Males	Males	Males	2 Males	Males	Males	Males	Males Females.	Males	Males Females.	Males Females.	3 Females.
Wales	Males Fema	Males Femal	Males Femal		Males.	1 Males.	Femal	_			Males Femal	_	Males Female	Femal	Males Femal	Males Female	
Femal	Males Fema	Males Femal	Males Femal		Aales. Fomal	1 Males.	Femal	1 1	64		1		Males Female	-	Males Femal	Males Female	00
Wales	Males Femal	Males Femal	Males Femal		Males. Fomal	Males.	Males. Femal	_	64		1	_	Males Femal	Males Femal	Males Femal	Males.	
Males Males	Males Fema	Males Femal	Males Femal		2 Males. Fomal	Males.	Males. Femal	1 1	64		1		Males Femal	-	Males Temal	3 Males.	00
Wales	Males Fema	Malos Femal	Males Femal			Males.	Males. Femal	1 1	64		1		I Femal	01	Males Femal	-	00
8 Males	16 Fema	9 Males	Males Femals		61	1 Males.	9 Males.	1 1	64		1 1		24 I Femal	01	16 1 Femal	-	00
					01	1		1 1	C1	1	1 1	1 1	1	4 1 2		8	1 1 3
8	9t	6	00	8	63	1 1	6	6 1 1 1	E	1	8 1	10 1 1	24 1	8 4 1	1 1		1 1 3
8	13 16	13 9	8	8 1	18 13 2	3 1 1	18 9 ····	6 1 1 1	13 7 1 29	52 32 1	1 1	15 10 1 1	22 24 1	16 8 4 1 20	26 16 1	88 18	34 18 1 1 3
1 11 8   11   12   11   12   11   12   12	11 13 16	18 13 9	8 4	8 2 9	2 2 2 2	3 3 1	43 18 9	9 6 1 1 1	8 IS T	19 52 32 1	8 1 1	8 15 10 1 1	2 22 24 1	1 16 8 4 1 2	152 26 16 1 1	8 18 8	30 24 18 3
189 109 1 1 11 8	72 32 11 13 16	90 10 18 13 9	8 4 89	. 50 98 6 7 8	201 139 5 18 13 2 2 2 2*	14 6 3 3 1	96 26 43 18 9	246 228 9 6 1 1 1	47 8 13 7 1 2	346 242 19 52 32 1		88 53 8 15 10 1 1	213 164 2 22 24 1	418 378 4 16 8 4 1 2	218 23 152 26 16 1	114 18 67 28 18 8	313 246 20 24 18 1 1 1 3
189 109 1 1 11 8	72 32 11 13 16	90 10 18 13 9	8 4 89	. 50 98 6 7 8	201 139 5 18 13 2 2 2 2*	14 6 3 3 1	96 26 43 18 9	246 228 9 6 1 1 1	78 47 8 13 7	346 242 19 52 32 1		88 53 8 15 10 1 1	213 164 2 22 24 1	418 378 4 16 8 4 1 2	218 23 152 26 16 1	114 18 67 28 18 8	313 246 20 24 18 1 1 1 3
1 100 1 1 11 8	22 11 13 16	10 18 19 9		8 7 8	139 5 18 13 2 2	6 3 3 1	96 43 18 9	238 9 6 1 1 1	47 8 13 7 1 2	242 19 52 32 1	8 1 1	53 8 15 10 1 1	164 2 22 24 1	378 4 16 8 4 1	23 152 26 16 1	18 47 28 18 8	346 20 24 18 3

TABLE VIII. -Continued. - Marriages by Counties, Nativity, and Periods of Age.

1	-1	DOME	day	11	11	11		17		-01		11		11	00
885	.10	AO DE	10 08	11	11	11	11	11	11	11	11	11	11	11	11
RS, 18	22	03	8	11	11	11	- !	- :	11	11	11	11	11	11	11
YEA	20	to	12.	03	11	11		- 03	-!	G1 :	11	-	- !	11	01
os or	65	to	70.	11	11	11	C3 1-1	-!	11	01-	11	11	-	11	00-
KRIOI	09	22	8	00 01	11	11	00.03	01	11	101	11	11	61	11	1-00
IN P	35	10	60.	9	11	00	9		11	16	11	11	00 H	нн	1001
ATED	20	10	55.	10.01	11	61	22	01	+	1939	11	1	-4	11	1100
S, ST	45	to	20.	00 00	11	- !	t= 00	0010	-	18	11	-	411	11	17
AGE	90	to	6.	00 52	01		77	11 5		82		-	220	- !	22
RENT	98	to	40.	121	004	@ w	13	828	61 H	36	-	1	78	00 H	200
DIFFE	30	10	35.	36	55.00	200	23.23	10	00	117 86	00.01	04 00	190	104	32
GES AT	52	10	30.	53	110	37.1-	91	105	0.00	200	4	17 00	88	30	136
Marriages at Dipperent Ages, Stated in Prinods op Vrais, 1882.	90	10	25.	100	55	88	149	115	11 0	346	18	16	793	93	198
M	Un-	der	30.	98	30	00 1	308	300	352	16 252	17	20	93	14	151
	SEX	STATED.		Males	Males	Males Females.	Males	Males	Males	Males	Males	Males	Males Females.	Males	Males
CEB.	OWn.		Both	-	-	-	1	-		00	O1	1	-	1	01
COUP	MALES NENOWN.	ales.	For-		-		-		-		-			-	1
TED BY	MALES	Females.	Na- tive.	-			-	01	-	-	-	-	-	-	1
82, STA	LES OWN.	.83	For-		1	-	-			П	1	-	-	1	01
икр, 18	FEMALES UNEXOWN.	Males.	Na- tive.		-	1	-	-	-	-		-	1	-	10
TY OF PERSONS MARRIED, 1882, STATED BY COUPLES.	For-	males,	tive Males.	त	6	6	12	13	13	80	-	10	32	4	52
ERSON	For-		Fe- males.	81	17	50	30	98	9	121	27	7	41	10	150
TY OF	Roth	_	Born.	21	31	22	98	81	ė1	202	6	9	30	10	20
NATIVI	Roth	Na- tive-	Born.	200	17	15	282	539	18	515	10	81	118	75	419
	Goupl d, 1882,	airte	W	275	71	96	364	207	65	929	88	150	755	57	109
	COUNTIES			Tonin	Iosco	Isabella	Jackson	Kalamazoo	Kalkaska	Kent,	Keweenaw.	Lake	Lapeer	Leelanaw	Lenawee

												1					
11	11		11	11		-	11	11	-11	01.00	104	C+ 4	11	100	11	4 2	111
11	11	-1	11	11	11	11	11	11	11	11	11	11	11	-	11	11	11
-	11	-	11	11	11	11	11	11	11	11	11	11	11	-:	- 1	11	II
08	11	11	11	11	11	11	11	11	11	11	-!	11	11	+!	11	20-	11
	11	11	11	11	11	11	11	11	-	11	011	1	11	-!	1	01	11
-	11		11	11	+	11	11	11		11	10	411	11	-	-	61	00
201	11	54-	11	11	11	11	01	11		11	41	00.01	11	10:00	11	0101	11
0110	11	401	64	11	-:	11	0101	- 1	11	11	00 10	00.01	11	410	22 11	504	
00 00	-	10 00	11	11	62.4	01	1011	-	11	97	000	104	11	t-00	00.01	10-	
104	01	100	9	11	64	-	55.4			-	69	21	1-	18	00 00	410	00.00
94	00 04	178	77.4	11	9,8	46.00	14 6	55.0	41	11	11	812	61	22	401	212	400
II e		88	18	!!	22.	20	30	83	0.00	-	35	282		413	14 10	31	8*
122	00 00	35	88	401	106	36	2003	71	15	2	120	84		118	37	223	30
23	4-52	100	88	00 10	191	44	8.8	67	8123	65 44	124	251	1	141	1218	151	320
00 00	+8	786	909	11	7- 16	459	408	5 46	30	5	111	145		112	77	<b>⊢</b> ®	51
Males	soli iles.	Males Females.	selles.	les.	Males	les.	les.	les.	ser.	ser.	les.	seles.	les.	1108.	selles.	les.	les.
Male	Males	Male	Males Females.	Males	Male	Males Females.	Males	Males	Males	Males	Males Females.	Males Females.	Males Females.	Males Females.	Males	Males	Males Females.
4	1	1	1	1	T	-	-	1	C1	63	-	-	1	1	1	61	1
T	1	1	-	-					-			1	-		-		T
T	1	1	1	1	T	Ì	Ì	T	Ì	Ì	-	H	1			1	
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-		1	1	1	1	-	-			1	60	-	1	9	1	1	-
1		1				-						-				61	
00	- 00	10	11	01	83	14	65	16	6	1	81	33		8	16	16	6
19	7	\$3	83	6.0	33	10	88	19	10	*	45	88	-	53	0	41	13
10	9	21	100	1	100	4	44	114	9	4	21	48	01	146	14	15	00
138	H	141	48	-	83	3	16	40	98	02	356	2527		135	66	525	72
Livingston. 175	83	218	196	1-	315	ш	196	180	29	12	349	846	00	370	138	300	106
	Mackinae	Масошь	Manistee	1	Marquette	1	1	Menominee.	Midland	Missankee	-	Montcalm	cy	Muskegon	Newaygo	1	Oceana
SEO	ne	3	99	Maniton	11	Mason	Mecosta	in	7	ke	Monroe	aln	M'tmorency	go	80	Oakland	1

TABLE VIII, -Continued. - Marriages by Counties, Nativily, and Periods of Age.

										-01				.2.5	1000
		HOME	Mat	11	11	11		1			-	11	-	11	
1882.	.19	TO DE	1a 08	11	11	11	11	11	11	11	11	11	11	11	11
ABS, J	72	10	8	11	11	11	-	-	11	11	11	11	11	11	
YE	20	10	75.	01	11	11		100	1	03	11	1	- !	11	01
DS OI	8	01	70.		11	11	21-12	# [	11	011		11	-	11	20
ERIO	99	to	65.	60.03	11	11	00.01	01 }	11	101		11	61	11	t-00
1x P	555	to	60.	9	11	00	9		11	16	11	11	00 H		10.01
ATED	8	to	55.	15.03	11	O.	-	61	-	as	11	1		11	118
8, S.T.	45	to	20.	89	11	- 1	2-00	0010	-101	180	11	-	4-1	11	110
AGE	9	to	45.	253	63		77	11 2		92		-	201	-	23
RENT	88	to	40.	22	25.4	00	22	Se Se	01-	98	- !	1	<b>78</b>	87.	200
DIFFE	30	10	855	36	22.00	10	22	1992	00	117	20 61	94.00	10 10	24	32
RS AT	83	10	30.	58	12	212	168	105	0.00	266	7	25.00	88	020	136
Marniagus at Dipperent Agrs, Stated in Princes of Years, 1882.	50	100	25,	108	22	88	149	185	110	346	18	16	262	23	198
M	Uni	der	30.	10	30	000	108	200	912	202	17	20	98	14.	101
	SEX	STATED.		Males	Males	Males	Males	Males	Males	Males	Males	Males	Males	Males	Males Females
Kit.	"HAO		Hoth	-	-	1	1	-	1	00	Dit .	1	+	1	01
LAL	-			-	-	-	1	1	-	1	-	1	1	1	T
Col	JEN OWN	les.	For-	1			1							- 1	
TED BY COL	Магия	Females.	Na- For	-	1	-	-	64	1	1	-	-	-	-	1
82, STATED BY CO.	-		Na- tive.	I amount	1	-	1	-		1	-			-	01
IKD, 1882, STATED BY CO.	FEMALES MALES URKNOWE, UNKNOWE	Males, Pemales.	Na- tive.	1			1	-	1	-		1	1 1		67
MARRIED, 1882, STATED BY COL	-	Males.	Na- For Na-	24 1	6	1	1	-	1 2	1	- 2		35 1 1	*	_
ersons Married, 1882, Stated by Col	FOF- UNKNOWE.	males, Males.	Hales, tive, eign, tive.	1	1	******	1 1	8	1	1	1			4 4	0
TY OF PRISONS MARRIED, 1882, STATED BY COUPLES.	For For Unknown.	Mates, Fee Males,	Fe. tive Na. For Na. malon, Males. tive, eign, tive.	24 1	6	9	1 1	13 2		1	1	g	35 1 1		20 658
ATTAILE	For For Unknown.	For Nates, Fe-	Born, Ye. tive, Na. For Na. males, Males, tive, eign, tive.	28 24	14 9	80 08	30 21 1 1	20 13 2		121 80 1	12	4 6	41 85 1 1	9	31 22 2
HATIVITY	For For Unknown.	Ms For Mates, Fee Males, Hales, Males, Males,	Rorn, Born, Ye, tive Na. For Na- males, Males, Hvc, eign, tive.	12 28 24 1	81 18	13 20 9	25 20 21 1 1	22 20 13 2	2 8	202 121 90 1	9 12	6 6 6	30 41 35 1 1	10 6	20 31 22 0

												1					
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01	11	11	11	11	11	Ti	11	11	11	11	- 1	11	11	-	11	69-	11
59	11	11	11	11	11	11	11	11		11	94	-	11	- ;	1	01	11
-	- 11	77	11	11	-1	11	11	11		11	0	4-1	11	-	-	C3 :	00 !
-	11	01-4	11	11	11	11	01	11		11	411	00 01	11	KO 00	11	03 03	II
0140	11	401	69	11	- !	11	0101	-	11	11	0010	00 01	11	410	00 H	104	
00 00	-	10.00	11	11	65.40	01	101	-:	11	00	10	104	-11	r-30	00.03	10	
104	89	100	9	11	1-4	4	00 4	-01			69	21	1	68	00.00	40	00.00
0.4	00:01	F. so	4	11	920	400	14.	300	41	11	11	27	01	22	403	25	400
H <sub>0</sub>	00	252	88.8	11	552	20	30	88	0.83		35	53	11	15	10	11.	24
22	00 04	35.	28.88	401	106	88	23.83	178	120	10	120	6.2		118	157	22	881
83	1-21	100	88	67 10	121	44	883	67	8121	00 mg	124	147	1	143	1288	131	31
88	-8	78	P 09	11	7 6	- 64	+98	46	30	20	119	145	11	15.0	201	F-8	415
Males Females.	Males	Males Females.	68,	Males Females.	Males	les.	Males	Males	les.	Males	les.	les.	les.	108.	168.	les.	les:
ales	les ma	lea	les	les na	nu	les na	les	es	es	es	la es	100	88	es co	Se Se	9 5	On Da
22	Ma Fe	Ma	Ma	Ma	Ma	Males	Ma Fer	Males	Males	Mal	Males	Wal	Males Females.	Males	Males	Males Females.	Mai
4 NA	Ma Fe	Ma Fe	Males Females.	Fer	Ma Fer	1 Fer	Fer	Wer Fer	2 Fen	2 Fen	I Fen	Males Females.	Mal Fen	Fen Fen	Feu	2 Fen	Females
4 W	Ma Fe	Kei	Ma Fer	Maj Eer	Ma Fer		Ma Fer	Ma)			Mal Fen	Mal Fen	Mal Fen	Maj	Fen		Wal
4  W	Ma Fe	Kel	Ma. Fer	Maj Fer	Ma. Fer		Ma. Fer	Maj			1 1 Fen	1 Fen	Mal	Maj	Mal		Mai
4 h	1 Fe	Ma Fen	Ker	Maj	Ma)		Fer	Maj			1 1 Ken	1 1 Fen	Mal	1 Fen	Mal		Mai
4   4  W	1 Fe	Ma	Ma		Ma)		Fer	Maj	67		3 1 1 Fen	1	Mal	6 1 Fen	Ken		
M +	1 Fe	Ma	Ma	Ma)	Ma. Fer		Wal	Maj	67		1 1	1	Mal	1	Mal	61	Mai
M + 8	3 1 Na	91 Fee	14 Ferr	9 Per	93 Fer		23 Fer	16 Per	67		1 1	1	Mai	1	16 Four	61	9   Mai
4	1					1 1			1 1 2		3 1	1 1	1 Fon			01	
4       8	1		14 tr	GI	88	и 1 1	53	91	9 1 1 2		28	35 1 1 1		- 1	16	61	
4   19   8	1	15 55	25 14	61	88 98	10 14 1 1	88	19 16	10 9 1 1 2		45 22 3	88 88 1 1 1	1	63 29 6 1	9 16	41 24	6   81
4	6 4 3 1	51 35 21	109 25 14	1 3 5	224 35 28	42 10 14 1 1	88 88	114 19 16	6 10 9 1 1 2	4 4 1 1	21 45 22 3 1 1	48 88 85 1 1 1	1	146 63 20 6 1	34 9 36	15 41 24 2	8 13 9
138 6 19 8	11 6 4 3 1	141 51 35 21	48 109 25 14	1 1 3 2	38 32 43 35	43 42 10 14 1 1	97 44 28 23	40 114 19 16	26 6 10 9 1 1 2	4 4 1 1 1	256 21 45 22 3 1 1	227 48 38 35 1 1 1	1 2	135 146 63 29 6 1	99 14 8 16	225 15 41 24 2 2	76 8 13 9

TABLE VIII, -Continued. - Marriages by Counties, Nativity, and Periods of Age.

1.	. [		"HAO	Тпкп	11	11		11	11	109	11	11	-	I	11	010	17
1000	7007	.1	oao p	one 08	11	11	11	11	11	11	11	11	11	11	11	11	11
1	AME	12	to	80.	11	11	11	11	11	11	11	11	11	11	11	-	11
1 5		22	to	15.	11	11	11	11	11	11	11	11	11	11	11	11	11
3	0 80	13	02	70.	11	11	01	11	11	41	11	11	00	11	11	-!	51
	ERIO	09	to	65.	11	11	-	11	11	1-00	11	11	10.01	O1	11		00 1
1	IN	25	to	.09	11	11	i	11	11	400		11	H 00	01-1	11	+	01-
	TED	20	to	92	11	11	01	11	11	99	100	11	1-4	-	11	400	φ#
	7, 8T	13	to	20.	-	11	10	11	11	20.00		11	1-10	91	11	<b>\$61</b>	1-00
	AGM	40	3	65.	-	11	60	11	- 1	0.0	00	11	25	00 00	11	φe3	E o
1	ENT	13	to	10.	-	4-1	89	01	20.09	10	0101	-!	17	000	01-	- 1x	122
	MARKIAGES AT DIFFERENT AGES, STATED IN PERIODS OF ARABS, 1052.	30	10	.55	4	Hoo	18	11	20-1	18	264	1	36	200		118	32
	ES AT	151	20	30.	60.09	1-01	10	21	010	11.00	14	11	194	28	10 01	97	117
	RELAG	90	to	33.	9	10.00	151	01.00	8010	153	101-	9	237	818	0.9	28.88	751
1	MI	Un-	der	20.	6	00	67.9	00	- 51	111	141		25 E	G 55	10	100	126
		SEX	STATED.		Males Females.	Males	Males Females.	Males	Males	Males	Males	Males	Males	Males Females.	Males	Males Females.	Males
	ES.	TOMD"	Unki	Воср	1	1	-	-	1	1	1	1	1			61	+
	OUP	S. W.W.	38.	For- eign,		1	-	1	1	1	1	1	-	1	1	1	1
1	BY	MALES UNKNOWN	Females.	-	1 :	-	-	:	-	-	1	-	-	1	1	-	
	ATED	UN	H	Na- tive.	1	1		1	1		1		1	1	1	,	
000	882, ST	FEMALES UNKNOWN.	Males.	For-		-			-		+	-	-				-
	IRD,	FES	M	Na-										1			24
	MARR	For-	Fe- males,	tive Males.	Q1	1	17	-	7	27	н	T	75	22	-	10	75
	ON	_			101	-	88	1	-	46	01	1	122	41	99	38	88
	KRS	For-	Inles Na-	Fe- nales													
	TY OF PERSONS MARRIED, 1882, STATED BY COUPLES.		<i>F</i> -1	-	7	10	31	1	-	H	51	-	156	81	10	22	151
		Roth	For-	born,	5 4	10		10	16 4	111 871	6 21	7 1	241 156	47 81	5 10	136 12	151 971
	NATIVITY	Roth	Na- For-	born. born,			118	_	25 16 4			8 7 1					_

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11			<b>-</b> i	<u>- i</u>	
<u> </u>	-	_ ; ;	<b>-</b> i	9	
	<b>-</b>	80	1	8	11
	2	20-	61	031	93
<b>80</b> 80	8	7-1	<b>n</b>	11	es :
64	<b>6</b> 0	=-	410	22	eo
20	94	<b>~</b> 10	<b>6</b> 33	ಫ≖	23
<b>6</b> 1-	410	20 20	51 9	67 31	ю ю ′
22	<b>#</b>	91	ងទ	107 84	<b>∞</b> 4
53	22	क्षज	書記	138	81 3
 8±	ខន	ខ្ល	113 87	963 138	23
38	졌용	35	88	28.55	ឌម
~8	112	111	~ <b>3</b>	88	<sub>ខ</sub> ង
Males	Malos Females.	Males Females.	Males	Maics	Males Females.
-	-	-	-	÷	
				23	
64			-	4	
				-	-
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21	\$	6	ಣೆ	171	20
<b>a</b>	22	<b>8</b> 4	11	93	#
11	8	10	ន	33	ន
8	33	73	212	296	57
88	132	186	788	1,576	106
8t. Joseph   326   369	Tuscola 257	Van Buren 287	Washtenaw	Wayne 1,576	Wexford 106

The number of persons married in Michigan during the year 1882, who were under twenty-one years of age, may be found in the following table. The percentage of those married under twenty-one to the total number at all ages for each of the years 1876–1882 is as follows: In 1876, 56.38; in 1877, 55.41; in 1878, 56.41; in 1879, 53.75; in 1880, 52.19; in 1881, 50.28; and in 1882, 48.91. Yet, notwithstanding the fact that the number of marriages for 1882 is larger than for any year during the whole period of registration, the proportion of persons married under twenty-one years of age is smaller than for any of the above-mentioned years, or in fact since the registration began.

The number of males and females in 1882, who were married under the legal age, may also be seen in Table IX. There were 12 males and 168

females thus illegally joined in matrimony.

TABLE IX.—Exhibiting, for the State and Counties, the Total Number of each Sex under 21 years of Age; and the Number of each Sex at each Age under that of 21 Years, Returned as having been Married in Michigan during the Year ending December 31, 1882.

	UNDI	ER 21 Y	EARS	Agr	is of	MAI	es, 1	882.			AGES	or 1	FEMA	LES,	1882.		
STATE	OF	Aer, I	882.	7.	en.	en.	teen,	n,a	3.	en.	en.	teen.	n.	n.a	**nos	en.a	6,0
COUNTIES.	Total.	Males.	Fe- males.	Twenty.	Eineteen.	Eighteen.	Seventeen.	Sixteen,a	Twenty.	Nineteen.	Eighteen.	Seventeen.	Sixteen.	Fifteen.	Fourteen.s	Thirteen.a	Twelves
STATH	7,912	1,008	6,904	633	269	94	10	2	1581	1510	1652	1110	883	142	23	9	-
Alcona	13		13						5	3	9	1	2				
Allegan	188	24	164	19	5	****			29	33	44	28	27	2			1
Alpena	63	3	60	3		****	****	***	13	15	13	9	7	2	1		
Antrim	30	5	34	3	1	1	****		4	4	5	9	2	1	2		
Baraga	2	1	1	1		****		****	****	***	1						
Barry	102	17	83	13	3	1	***	***	21	21	19	17	6	1			
Bay	157	12	145	7	4	1		****	31	37	36	20	19	1		1	
Benzie	90	3	17	3		***		****	-	1	4	5	7				
Berrien	271	40	231	27	8	4	****	1	-85	-54	-96	22	33	7			
Branch	212	.36	178	16	24.	6			36	39	48	31	10	2	1		
Calhoun	132	20	132	24	A	1	1		12	-30	25	18	12	3	1		
Cass	22	13	79	8	3	2		in	n	B	B	13	3	3	1		
Charlevely	42	3	35	12	1	1	-	2000	2	4	11	20	8		1	****	
Cheboygan	25	3	35	1	2	****	-	-	4	2	1	2	3	2			
Chippewa	20		20	-	-		-	****	4	12	3	3	-				-
Clare	32	X	1 3	*				1	1 2	1	-	5	8	-	2		-
Clinton	31	Į.								1	25	34	24	2			
Crawford	1										1 2	1	1	200			-

<sup>&</sup>quot; Not le

TABLE IX.—CONTINUED.—Persons Married under 21 Years of Age.

	PERSO	NS MA	RRIED	Δ6	ES O	MA	LES, I	882.			AGES	oF	FEM.	ALES,	1882		
COUNTIES.	Total.	AGE, I	Fe-	Twenty.	Nineteen.	Eighteen.	Seventeen.a	Sixteen.a	Twenty.	Nineteen.	Eighteen.	Seventeen.	Sixteen.	Fifteen,a	Fourteen.s	Thirteen.*	Twelve.a
-	Total.	marea,	males.	TW	N	Eig	Ser	Six	Tw	NB	Eig	Se	Six	FIL	For	Th	TW
Delta	46	9	37	7	2				9	6	9	6	5	1	1		
Eaton	138	24	114	13	7	3	1		25	19	26	26	17	1			
Emmet	42	3	39	2	1			****	6	6	13	7	7				
Genesee	174	29	145	16	7	5	1		34	23	32	34	19	3			
Gladwin	6		6		****			****		1	3	1	1				
Grand Traverse	43	2	41		1	1			6	7	13	11	4				
Gratiot	132	19	113	14	5				20	19	21	28	22	3			
Hillsdale	210	34	170	23	7	4			43	36	44	27	25	1			
Houghton	99	15	84	11	4				29	24	7	13	7	4			
Huron	71	5	66	1	3	1			13	18	18	8	8	1			
Ingham	151	22	129	13	7	2			31	30	25	18	23	2			
Ionia	125	18	107	8	8	2			19	27	27	17	16	1			
Iosco	87		37						7	10	8	7	5				
Isabella	58	6	52	3	1	2			10	6	13	15	8				
Jackson	175	27	148	19	4	3	1		40	87	34	23	10	3	1		
Kalamazoo	131	99	109	14	6	2			30	26	25	15	11	2			
Kalkaska	24	5	19	3	9				4	4	1	3	5	2			
Kent	404	46	358	30	12	4			106	67	100	45	37	3			
Keweenaw	19	1	18	1					1	3	6	4	3	1			
Lake	24	1	23		1				3	2	6	4	6	2			
Lapeer	125	13	112	9	9	2			19	29	26	19	16	2	1	****	
Leelanaw	23	5	18	2	3				4	2	5	2	3	2			
Lenawee	247	40	207	26	12	2			56	44	55	29	18	4	1		
Livingston	89	12	77	9	2	1			15	18	20	15	9				
Mackinac	10	1	9	****	1				1	1	4	****	2	1			
Macomb	117	15	102	9	3	3			24	21	34	11	12				
Manistee	89	11	78	7	2	2			18	21	18	10	10	1			
Manitou	1		1						1								
Marquette	142	16	126	9	4	2	1		32	27	24	21	15	7			
Mason	54	3	51	2	1				9	10	16	9	4	2		1	
Mecosta	110	15	95	11	4				15	17	22	15	21	3	2	****	
Menomineo	80	13	67	8	5				21	15	14	12	3	1	1		
*******	34	3	31	3					1	7	6	5	9	3			
******	7		7						2	2	1	1	1				
	174	19	155	8	9	2		1	39	36	43	24	13		100		

arriages.

TABLE IX .- CONTINUED .- Persons Married under 21 Years of Age.

	UND	ONS MA	EARS	AG	E5 01	MA	LES,	1882.			AGES	OF	FEMA	LES,	1882		
COUNTIES.	OF	AGE, 1	882.	4.	en.	en.	een.s	0.8		en.	en.	een.	0,	1.0	en.s	en.a	
	Total.	Males.	Fe- males.	Twenty.	Nineteen.	Elghteen.	Seventeen.	Stxteen.a	Twenty.	Nineteen.	Eighteen.	Seventeen	Stateen,	Fifteen.a	Fourteen.s	Thirteen.A	Twelve.a
Montealm	203	31	172	17	7	4	2	1	27	38	32	29	40	6			
Muskegon	169	17	152	15	1	1			40	33	34	30	14	1			
Newaygo	100	16	84	11	3	2			13	14	16	14	18	8	1		
Oakland	129	15	114	8	6	****	1		26	22	32	18	15	1			
Oceana	63	7	56	3	3	1			5	9	12	15	10	3	2		
Ogemaw	9		9							3	2		3	1			
Ontonagon	7		7						4	2		1					
Osceola	88	10	78	8	2				11	14	20	13	18	1	1		
Oscoda	3		3		****	****							1	2			
Otsego	14	2	12	1		1				2	3	1	4	2			
Ottawa	179	31	148	20	9	2			45	33	29	26	15				
Presque Isle	17		17						3	2	2	5	3	2			
Roscommon	8	1	7				1			1	1		3	2			ļ
Saginaw	320	34	286	21	11	1	1		60	67	75	31	45	7	1		
Sanilac	117	13	104	4	4	5			22	20	30	12	17	3		****	
Schoolcraft	12	1	11		1				2	2	1	3	2	1			
Shiawassee	106	13	93	8	4	1			16	21	21	17	15	3			
St. Clair	175	12	163	5	4	3			37	49	36	23	15	3			
St. Joseph	148	22	126	19	1	2			27	32	28	23	16				
Tuscola	164	19	145	11	8				33	25	38	28	20	1			
Van Buren	168	26	142	18	4	4			31	23	36	29	13	8	2		
Washtenaw	135	15	120	10	4	1			37	40	25	12	4	2			
Wayne	603	76	527	50	21	5			167	141	128	65	26				
Wexford	44	6	38	3	2	1			7	5	9	5	9	3			

<sup>.</sup> Not legal marriages.

## MANNER OF UNION BY AGES.

Table X. shows the number and percentage of males and females married in each period of age, in Michigan, during the year 1882. The divisions of age of the grooms are placed in the first column, and of the brides across the top of the table, which are read as follows: Of the 375 grooms who were under twenty, 294 married brides under twenty, 67 married brides 20 to 25, etc. In a similar manner the other numbers in the column headed "Total Males" are distributed throughout the table.

The 5,323 females meaded "Total Fe" 20 years of males 2" v vears of age, as seen in the line 78: 294 married males under cars of age, 1,391 married and the bottom line of the table show the relative proportion of grooms and brides married at each period of age. The largest proportion of both grooms and brides appears for those between the ages of twenty and twenty-five years. The table is very instructive, inasmuch as it gives a comprehensive view of the manner of union, by age, of all parties married during the year.

TABLE X.—Exhibiting the Number of each Sex at each Period of Age who were married in Michigan during the Year 1882; the Number of each Sex at each Period of Age who were united to the opposite Sex at each Period of Age; and the Per Cent of Brides and of Bridegrooms at each Period of Age to Total at all Ages.

													=				
AGES OF MALES, 1882,	Un- der 20.	20 to 25,	25 to 30,	30 to 35.	35 to 40.	40 to 45.	45 to 50.	50 to 55.	55 to 60,	60 to 65.	65 to 70-	70 to 75.	75 to 80.	80 and over.	Unknown.	Total Males.	Grooms at
Under 20	294	67	7	4	1										2	375	2.3
20 to 25	3,169	2,852	368	56	9	2	1	1							16	6,474	40.0
25 to 30	1,391	2,267	979	166	45	8	4	1							13	4,874	30.1
30 to 35	352	699	466	234	73	23	5	2							7	1,861	11.5
35 to 40	78	254	238	191	137	46	10	3	1						2	960	5.9
40 to 45	99	97	113	107	86	- 65	28	4	2						2	521	3.2
45 to 50	7	27	58	58	81	53	46	16	3							349	2.1
50 to 55	6	16	22	38	50	53	33	29	3	1	3					254	1.5
55 to 60	1	4	7	14	27	22	34	31	11	5	2				1	159	.0
60 to 65			6	7	14	20	30	42	11	15	4					149	.9
65 to 70			2	4	3	8	7	9	17	10	5	****				65	.4
70 to 75				1	1	1	6	. 9	10	14	5	2				49	,3
75 to 80	1			1			1	2	1	2	3	2				13	.0
80 and over.						1		1		. 1	1		1			5	.0
Unknown	2	4		1		1			1						61	70	.4
Total Fe- }-	5,323	6,287	2,266	882	527	303	200	150	60	48	23	4	1		104	16,178	
Per Ct. of Brides at each age.	32.90	38.86	14.01	5.45	3.26	1.87	1.24	.93	.37	.30	-14	.02	.01		.64		100.0

### GREAT DIFFERENCES IN AGES OF PERSONS MARRIED.

Some curious marriages occurred in 1882, as may be seen from an examination of Table XI. Among the most remarkable of the marriages, in regard to disparity of age, may be mentioned the males at 50, 51, 53, 75, and 59, to females of 19, 16, 23, 16, and 18, respectively. On the other hand, there were a number of marriages where the gooom takes a bride many years older than himself. Among such marriages may be mentioned a groom of 24 to a bride of 46, a groom of 27 to a bride of 50, and a groom of 23 to a bride of 52. It is thus very evident that disparity of age is no barrier to the inclinations of some parties desiring matrimony.

TABLE XI.—Marriages with Great Disparity of Ages, Returned as having boen Solemnized in Michigan during the Year ending the Pear

	g g	Ввірксвоом Огркет,—1882.	DEST,-1882.				BRIDE OLDEST,-1883.	Est,-1883.		
COUNTIES.	:	Вівтні	Вівтирьков.	AGE.			BIRTIII	BIRTHPLACE.	PV	Age.
	Occupation of Bridegroom.	Bridegroom.	Bride.	Bride. groom.	Bride.	Occupation of Bridegroom.	Bridegroom.	Bride.	Bride- groom.	Bride.
Allegan	Farmer	Canada	Canada	67	æ	Farmer	Michigan	Michigan	ž	3
Alpena	Merchant	England	Michigan	\$	Ħ	Farmer	New York	New York	ន	8
Antrim Farmor	Farmer	New York	Michigan	귏	11	Laborer	Switzerland Switzerland	Switzerland	33	\$
Barry	Farmer	Germany	Germany	3	31	Farmer	Michigan	Ireland	7	7
Вау	Farmer	New York	Maine	97	61	Farmer	Michigan	Canada	2	8
Berrien	Farmer	New York	New York	8	2	Farmer	Michigan	Illinots	27	33
Branch	Blacksmith	New York Indiana	Indiana	9	15	Unknown	Unknown Unknown.	Unknown	æ	37
Calboun	Carpenter and }	. New Hampshire Maryland.	Maryland	62	37					
Cass	Farmer	Pennsylvania New York	New York	8		Painter	Indiana	Michigan	ล	42
Charlevoix	Farmer	New York	New York	85	33					
Olinton	Farmer	New Jersey Michigan	Michigan	93	33	Farmer	Germany	Canada	ន	37
Delta	Railroading	Connecticut	Pennsylvania	19	ķ	Laborer	Swoden	Sweden	8	23
Eston	Farmer	New York	Michigan	8	8	•				
Emmet	Genoral business	New York	New York	8	12	Farmer	Scotland	Mass	51	38
Genesee	Farmer	New York	Canada	8	24	Farmer	Canada	Michigan	72	8
Grand Traverse	Farmer	Norway	Norway	8	8					
Gratiot	Farmer	New York	Michigan	23	92					
Haron	Farmer	Ireland	Michigan	51	97					
Ingham	Farmer	New York	Obio	22	88	Painter	New York	England	43	57
Ionia	Farmer	Germany Ohlo	Oblo	_ 3	ឌ	Laborer	Canada	Canada		\$

Jackson	Farmer	England	England	1 69	00	Railroading   New York   New York	New York	New York	188	
Kalamazoo	Farmer	New York	Canada	62	133		***************************************		*********	***************************************
Kalkaska	Farmer	New York	Canada	20	36	Merchant	Canada	New York	30	9
Kent	Laborer	England	Michigan	51	11	Laborer	Michigan	Michigan	27	90
Lapeer	Farmer	Ireland	Canada	28	355	Farmer	Canada	N. Brunswick	86	37
Lenawee	Merchant	New York	New York	90	20	Unknown	Michigan	Michigan	124	36
Livingston	Farmer	New York	Michigan	7.5	16	***************************************			*********	
Macomb	Farmer	New York	Michigan	20	35	Laborer	Michigan	Michigan	22	33
Manistee	Farmer	New York	Sweden	33	27					********
Marquette					-	Laborer	Michigan	Ireland	- 20	30
Mason	Farmer	France	Germany	45	19		***************************************			********
Mecosta	Farmer	Ireland	New York	51	21		***************************************		***************************************	*******
Monroe	Farmer	Pennsylvania	Ohio	63	器	Laborer	Michigan	Canada	33	45
Montcalm	Financier	Scotland	Pennsylvania	99	18			***************************************		***************************************
Muskegon	Farmer	Vermont	Michigan	80	OF	Machinist	Germany	Germany	15	40
Newaygo		***************************************		-		Farmer	Michigan	Michigan	27	17
Oceana	Farmer	Pennsylvania	New York	83	38	Farmer	New York	New York	83	52
Ottawa	Farmer	Netherlands	Notherlands	23	75	Farmer	Michigan	Michigan	15	88
Presque Isle	Light-house keeper Ireland	Ireland	Ontario	96	30	Farmer	Canada	Canada	42	200
Saginaw	Laborer	Germany	Germany	29	30	Farmer	Germany	Germany	ID	250
Sanilac	Cabinet-maker	Ontario	Ontario	99	253					
St. Clair	Farmer	New York	Michigan	69	253	Laborer	Michigan	Michigan	18	13
Tuscola	Farmer	New York	Michigan	20	88	Carpenter	New York	Michigan	96	13
Van Buren	Merchant	New York	Michigan	99	81					***************************************
Washtenaw	Farmer	New York	England	99	53	Farmer	Michigan	Canada	15	31
Wayne	Pharmacist	England	Ontario	79	35	Farmer	Canada	Ontario	22	40
Wexford					-	Farmer	Sweden	Sweden	30	01
-				1	1		1		1	1

TABLE XII.—Exhibiting, for the State and Counties, the Number of Marriages in Michigan during each of the Years 1874 to 1882, inclusive, Returned previous to December 17, 1883; for the Years 1879, 1880, and 1881, the Number as first Returned, and the Number deturned since Compilation; the Number of Inhabitants in 1880; the umber of Inhabitants in 1880 to one Marriage in 1882; and the Per Cent of Marriages in 1882 to Inhabitants in 1880.

		*088I	8.	12	002	687	1.18	19	270	88	06.	L48	1.15	8	98	119	TT.
mi a	nolla	Per Cent of Mai 1882 to Popul			-	-	-			-	-	-	+	-	-	-	
ni s ni o	tantid Zaltta	Number of Inha 1880, to one Ma 1882,	101	111	92	78	84	150	127	113	ш	29	87	113	116	11.	130
-910 dl	o, Rel	Population, 1880 sented by Mar 1882.	1,636,882	3,107	37,815	8,789	5,237	1,801	25,317	38,081	8,433	36,785	27,941	38,452	92,000	6,116	6,524
	1882.	Namber Re- turned.	16,178	55	397	113	0.5	10	190	336	31	546	321	341	180	22	98
		Number Re- turned previ- ous to Dec. 17, 1883.	15,671	17	390	102	36	16	200	321	43	200	307	337	792	10	73
	1881	Number Re- turned since first Compi- lation.	824	50-	18	.04	***************************************		1	19	***************************************		56	80	9		
		Number As first Re turned and Com- pilled.	14,847	14	372	100	98	16	199	305	43	562	251	320	251	10	12
		Number Re- turned previ- ous to Dec. 17, 1883.	14,888	13	320	103	39	13	200	254	250	478	325	300	999	98	61
	1880.	Number Re- turned since first Compi- lation,	739	1	1	43	*****		00	37		20	41	15	0	***************************************	0
ES.		Number as first Re- turned and Com- piled.	14,149	21	358	99	30	13	232	217	33	458	284	929	950	8	98
MARRIAGES.		Number Re- turned previl- ous to Dec, 17, 1883.	13,892	30	828	99	46	0	249	771	31	200	331	538	239	8	45
MA	1879,	Number Re- turned since first Compi- lation.	0.67	-	30	12	1	*******	62	18	********	14	20	90	7	01	-
		Number nest Re- turned and Com- pilled.	13,225	10	315	53	45	0	246	120	31	486	311	330	232	25	19
	1878.	Number Re- turned previ- ous to Dec. 17, 1883.	12,880	9	288	99	34	1	214	260	21	438	331	335	919	32	43
	1877.	Number Be- turned preyf- ous to Dec. 17, 1863.	11,899	0	272	200	22	10	214	178	22	37.1	300	207	192	31	90
	1676.	Number Re- turned previ- ous to Dec. 17, 1883.	11,913	9	300	47	52	11	207	190	20	480	200	283	222	8	23
	1875.	Number Be- turned previ- ous to Dec. 17, 1983.	11,870	13	200	10	13	10	150	202	34	200	323	348	100	21	36
	1974.	Number He- turned pravi- nus to se. 17, 2883,	8,580	30	970	0.2	100		17.0	323	37	400	334	800	214	23	88
								900	Procesoper.	of envisioners	entile	arrigina son	THE RESERVE	Thoun-see	OH sees east.	arlevolx	a boy gan

Bra De

100	1.19	27:	1.21	1.41	er	1.17	88:	.03	1.04	76.	1.26	76.	70.	.93	18'	1.03	er.	******	18'	98.	1.09	1,96	99.	.114	.75
100	88	140	88	11	126	188	113	188	96	103	79	103	176	108	123	26	127	******	115	116	92	79	153	87	133
5,948	4,187	28,100	1,159	6,812	31,225	6,639	39,220	1,127	8,422	21,936	39,723	99,473	50,089	33,676	33,872	6,873	12,159		42,031	34,342	2,937	73,253	4,970	8,233	30,138
49	99	201	14	96	946	78	346	9	88	213	413	218	1114	313	275	11	36		364	297	83	922	88	37	722
629	40	236	11	72	929	64	333	*	78	197	360	196	135	300	314	110	100		431	343	83	812	600	23	365
					19	-	0	-	19	-	14		1	6.	16		1		10	1.9	64	169	1	-	36
00	42	236	11	72	240	79	320	4	20	197	346	196	134	100	298	110	66	********	421	276	31	646	31	21	949
81	83	246	23	88	268	10	342	+	88	192	403	169	134	340	346	96	96	-	878	341	36	890	66	16	920
-		.04		-	01	***************************************	00		10	1	00			6	88	7	01		19	76	1	20	O1		12
90	88	244	13	89	266	51	334	*	73	191	395	169	134	331	318	98	76		329	995	133	618	27	16	247
9	25	282	01	09	280	40	405	*	86	179	388	170	142	829	350	48	11		397	321	17	655	10	76	365
	-	10			10	O1	36	1	10	QE	00,		*	63	11	-	-		1-	17	. 1	23	60		7
19	27	229	2	00	976	28	306	00	11	17.1	380	170	138	326	339	48	70		390	950	16	632	1	24	928
19	36	230		87	974	13	398	4	25	139	396	191	120	400	301	46	99	***************************************	370	344	30	909	26	16	237
25	133	187		**	999	30	364	4	45	137	337	188	109	313	895	40	49	***************************************	401	258	16	558	27	13	195
=	7	200	********	72	274	25	326		3	119	372	152	129	291	986	17	99		364	266	11	611	40	12	197
15	10	198		81	271	14	342	CH	99	142	385	136	113	346	273	81	55		357	312	-	899	88	14	197
-	0	906	-	38	282	83	316	-	40	104	430	336	78	288	978	61	63		380	319	6	635	38	11	198
	- marie	**********	browner	Detta	Eaton	Emmet	Genesee	Gladwin	G'd Traverse	Gratiot	Hillsdale	Houghton	Huton	Ingham	Ionia	Iosco	Isabella	Isle Royal	Jackson	Kalamazoo	Kalkaska	Kent	Keweenaw	Lake	Lapeer

" No returns of marriages.

TABLE XII.—Continued.—Marriages Corrected by Counties.

							MAR	ARRIAGE	.8.							-910 gl 6	nl et nl et	uj e
	1874.	1673.	1876.	1877.	1878.		1879.			1880.			1881.		1882.	.цøger y geb	natida Saitta	rriage noitain
CHTIES.	Number Number Ro. turned turned previ- ous to Dec. 17, Dec. 17, 1993.	Number Bo- turned previ- ous to Dec. 17,	Number Re- turned previ ous to Dec 17,	Number Re- turned previ- ous to Dec. 17,	Number Returned previous to Dec. 17,	Number as first Re- turned and Com- plied.		Number Re- turned previ- ous to Dec. 17,	Number	Number Re- turned since first Compi- lation.	Number Re- turned previ- ous to Dcc. 17, 1883.	Number as first Re- turned and Com-	Number Re- turned since frat frat Compi-	Number Re- turned previ- ous to Dec. 17,	Number Re- turned.	Population, 1880 sented by Man 1982.	Zumber of Inhi 1880 to one M 1882.	Per Cent of Ma 1882 to Popu 1890.
i.	\$		: 23	1	1 2	8	<del>21</del> 	я	8	-	Ñ	\$	-	1.4	<b>3</b>	6,233	35	89.
:	407	\$	4.2	430	\$	4.52	8	473	436	ş	181	604:	20	214	504	48,343	8	1.04
:	153	157	145	154	141	146	ž	191	121	15	106	196	-	167	175	22,251	121	٤.
į	ŝ	ឌ	=	11	ន	*		22	ä		83	8		38	អូ	2,902	116	₩,
•	253	ě	22.53	X.	211	OT.	21	ij	252	7	230	177	=	202	248	31,627	128	æ
	8	11	92	£	£	28	*	16	101	ä	25	113	<b>+</b>	111	196	12,532	\$	1.36
•	<b>x</b> .	:		v	=	r.		ĸ	-		7	8		æ	1	1,33	181	35
X60		941	¥.	91	111	06:1	10	130	157	ક્ષ	771	202	<b></b>	246	315	18,89 180	8	1.24
•	32	23	53	8	77	£	-	ž	101	•	107	101	i	101	H	10,065	91	1.10
<b>at</b> e	Ŷ	ā	8	- 26	103	103	*	101	125	-	126	143	61	145	193	13,973	73	1.37
••almose	a	8	ន	뫒	×	53	:	ž	120	m	អ្ន	921	-	35.	£	11,987	S	1.58
Midland	52	R	ñ	7	<u>ਫ</u>	ż	c	8	8		£	2	-	8	33	6,803	123	æ
Missankes	79	٠	**	1-	=	\$1	31	•	<u> </u>	:	22	æ	:	x	15	1,553	104	.97
Monroe	95	X.	II.	Ħ	95	3000	ž	ž	314	n	727:	345	7	349	349	33,624	88	<b>1.0</b>
Montealm	101	74K.	10%	<u>:</u>	ž.	717	3	807.	Ž	20	<b>1</b> 8	Š	33	501	346	33,148	98	1.04
Montmorency .	:	:		:	:	i				i	-	-	i	-	93	•	-	:
Muskegon	103	157	111	147	353	20%	33	123	06%	7	T S	728	9	330	370	28,586	21	1.39
Newaygo	¥.	87	æ	97	r x	103	65	106	132	-	82	112		119	138	¥8, ₹	100	8.
Oskland	38	343	34	36	- E	ਡ	28	33	28	2	2002	307	17	77	96	41,537	55	£.

_	147	_		_	-	_		_			83 1.21	_	_	89 1.99	100 1.00	_		106 .95	
11,699	1,914	2,565	10,777	467	1,974	33,126	3,113	1,459	59,005	26,341	1,575	27,059	46,197	969'95	25,738	30,807	41,848	166,444	
106	13	17	145	9	8	873	31	00	109	201	19	761	422	326	257	287	384	1,576	
10	14	15	138	00	20	331	55	13	180	126							380	1,631	
	********		13			4			114	1		6	10	80	14	11	19	26	100
26	14	15	125	00	90	317	933	133	570	125	0	206	360	364	190	249	322	1,555	1
III	9	34	124	***************************************	-23	185	10	10	202	150	7	202	104	336	105	297	330	1,620	
			7	*********	-	11	1	***************************************	30	96	***************************************	10	88	111	9	333	00	15	
III	9	14	1112		23	970	0	10	485	124	7	200	376	325	195	264	350	1,599	-
98	-	9	76		6	253	10	11	402	140	10	163	410	306	218	7967	725	1,328	-
1	+		********	***************************************	01	6	'20		420	01		6	98	88	9	12	00	50	7
8	-	9	34	********	1	244	7	17	450	147		154	384	277	212	246	319	1,308	**
83	00	111	20		90	291	4	*	402	153	6	175	322	345	192	287	278	1,136	***
101	01	21	R		10	241		01	361	135	10	196	330	338	163	249	293	060	
89	9	13	47		13	946	0	-	39.1	118	12	186	349	306	148	245	275	1,037	-
100	********	12	87	-	4	210	10	4	896	133	10	191	350	307	141	958	275	086	-
102		16	88			-240	10		412	107	9	180	420	300	150	281	310	1,138	***
	10	to the second	seola	Oscoda	Otsego	Ottawa	Presque Isle.	Roscommon	Saginaw	Sanllac	Schooleraft	Shiawassee	St. Clair	St. Joseph	Tuscola	Van Baren	Washtenaw	Wayne	Wantend

. The population of Montmorency county is included in the population of Alpena county, and cannot be ascertained.

Exhibit D shows the marriage-rates in some of the European countries and States of the Union.

EXHIBIT D.—Marriage-Rates in Several States and Countries,—1873-1882.

STATES AND COUNTRIES.	Ave	LAGE A	ZZTAL			1873-1	FOR 1,0	000 Po	PULATI	ON IN
	1973.	1974.	1873.	1376.	1377.	1878.	1579.	1880.	1881.	1882.
England and Wales	17.6	17.1	16.8	16.7	15.8	15.3		14.9		
Denmark	16.2	16.4	16.9	17.0	16.1	14.7		15.2		
Sweden	14.6	14.5	14.0	14.1	13.7	12.9		12.6		
Austria	18.5	17.9	16.9	16.3	14.8	15.0		15.1		
Prussia	20.3	19.4	18.0	17.1	16.0	15.6		15.4		
Netherlands	17.0	16.6	16.6	16.4	16.0	15.4		15.0		
France	17.8	16.7	16.7	15.8	15.1	15.1		 		
Hungary	22.6	21.4	21.9	19.8	18.2	18.7		18.2		
Switzerland	15.2	16.6	18.0	16.2	15.8	14.7		13.6		
German Empire	20.0	19.1	18.2	17.0	16.0	15.4		15.0		
Italy	15.8	15.2	16.8	16.2	15.3	14.3		13.8		
Massachusetts	20.9	19.3	16.5	15.4	15.4	15.5	16.0	17.4	ļ	
Bhode Island	24.2	19.7	19.4	17.5	17.7	18.0	17.3	20.1	19.8	19.1
Michigan	18.2	13.2	17.0	16,6	16.0	16.8	17.6	18.0	18.4	18.4

# DEATHS, 1882.

The total number of deaths recorded by official registration in Michigan in 1882, was 16,425, a number less by 2,813 than that of the previous year. Computing the mortality according to its proportion to the estimated population of the State, there was a decrease as compared with the years 1880 and 1881, the rate of mortality being 9.40 to each one thousand of the living. The rate in 1880, with the actual population, was 9.90, and the rate in 1881, with the estimated population, was 11.40.

Corrected for supposed omissions in the enumeration, the estimated number of deaths in 1882 is 27,306, and the death-rate 16.7 to each thousand inhabitants, and this is based upon the population in 1880. If the estimated population is used the rate would be 15.6. This diminished mortality indicates either that more deaths escaped registration than usual, or that the public health in Michigan in 1882 was more favorable. After making all necessary allowances, however, for errors of omission, the death-rate in Michigan will compare favorably with the rates in Massachusetts and Rhode Island, and also in certain European countries.

COUNTRIES.	Average Death-rate, 1860-79.	Death-rate, 1880.
Massachusetts	19.7	19.8
England and Wales	22.0	20.5
Denmark	19.7	20,4
Sweden	19.2	18.1
Austria	30.8	29.6
Prussia	26.5	25.5
Netherlands	24.6	23.6
France	23.6	
Hungary	38.9	38.6
Switzerland	24.0	21.9
Italy	29.9	30.5
Spain	29.7	
German Empire	27.0	26.1

The death-rate in Massachusetts for the year 1882 per 1,000 of the living population, was 19.14. In Rhode Island in 1882, the rate was 18.3 in each

thousand inhabitants, and the foregoing were the average annual death-rate in the various European countries for the years 1860-1879, and 1880.

In making comparisons of the death-rates in the various states and countries, due allowance should be made for completeness of registration, density of population, and differences in the characteristics of the people. The following tabular statement shows the death-rate in Michigan, both as regards the number of deaths returned, and the number as corrected for omissions in the enumeration. The computations are based upon the population in 1880, and the number of inhabitants represented by the returns of deaths.

	Inhabitants	Deaths	Deaths Corrected		OF DEATHS BITANTS.
	in 1880 Represented by Deaths in 1882.	Returned.	for Omissions in Enumer- ating.	Deaths as Returned.	Deaths Corrected for Omissions
Total	1,632,737	16,425	27,306	1.01	1.67

The average number of deaths for certain specified periods of time, as returned and as corrected for omissions in enumerating, including those in unknown month, is as follows:

PERIODS OF TIME.	Deaths as Returned.	Corrected as per Exhibit C, 4th line.
Per quarter	4,106	6,827
Per month	1,369	2,276
Per week	316	525
Per day	45	75

The influence of season upon mortality may be seen in Table I., which shows the number and per cent of deaths in each quarter of the years 1874-82. It will be observed that the per cent of deaths in the different quarters of the year vary more or less from year to year. In 1881 the proportion of deaths in the third quarter was 32.48 per cent, and in 1882 it was only 26.07 per cent, being 1.26 per cent less than that of the fourth quarter. The year 1878 is the only other one in the table that shows an excess of deaths in the last quarter. In the states of Massachusetts and Rhode Island the highest deathrates for 1882 were in the third quarter.

When the returns of deaths are corrected for omissions the order of the quarters is seen to be different, the second quarter showing the largest number.

each of the Years 1874 to 1882, inclusive.

ATS AND MONTHS	1874.	4	1875.		1876.		1877.	-	1878.	2	1879.	-	1880	-	1881.		1882.	
WITH WHICH QUAR- TERS END.	Num- ber.	Per Ct. of Total.	Num-	Per Ct. of Total.	Num- ber,	Per Ct. of Total.	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.	Num- ber.	Per Ct. of Total.	Num.	Per Ct. of Total.
Totals	12,500	100.00	11,990	100.00	12,576	100.00	12,919	100.00	12,766	100.00	14,407	100,00	16,102	100,00	10,238	100.00	16,425	100.00
March	2,246		9,079	22.34	2,460	19.56	2,500	20,12		1	3,000	1	3,011		3,458	17.98	3,521	21.44
June September	3,870	30.96	3,334	23.63	4,009	31.88	3,999	30,95	3,731	99.23	4,123	28.62	3,491	30.05	6,248	32.48	4,282	26.07
December	3,299	26,39	3,073	25.62	8,273	26.02	3,436	36.60	3,740	29.30	4,075	28.28	4,574	28.40	5,306	27.58	4,489	27.33
Unknown	97	78.	7.1	59	31	8	92	.43	3	01.	41	86.	43	.27	99	35.	25	.47
Average	3,125.00	25.00	9,997.50	25.00	8,144.00	25.00	3,239.75	25.00	3,191.50	25.00	3,601.75	25.00	4,025.50	25.00	4,809.50	25.00	4,106.00	25.00
Total	20,090	100,00	17,289	100.00	18,389	100,00	18,341	100.00	18,866	100,00	20,583	100.00	26,256	100,00	27,387	100.00	27,306	100,00
March	4,288	91.34	4,409	25.50	4,153	22,58	4,997	23,05	4,917	99.35	4,933	23.97	5,877	90.38	5,679	20.74	6,951	25.46
Jane	5,281	96.99	4,315	24.96	4,364	23.73	4,950	93.90	4.468	23.68	4,793	23.28	6,183	28.55	6,314	23.05	7,242	26.52
September	5,963	89.68	4,621	26.73	5,661	30.78	5,495	96.62	5,340	28.30	5,703	27.71	7,837	29.85	8,649	31.56	6,787	21 86
December	4,512	95.46	3,873	22.40	4,180	25.73	4,304	23.47	4,817	25,53	5,113	24.84	6,316	94.06	989'9	24.41	6,948	92.88
Unknown	46	83	11	.41	31	.17	36	.30	10	.13	41	.20	43	.16	98	16.	78	85
Average	5,023	95.00	4,392	25.00	4,597	25.00	4,585	25,00	4,717	25.00	5,146	25.00	2,188		25.00 6.846.75	25.00	6,827	25.00

" Including deaths in unknown month.

TABLE II.—Deaths Returned as having occurred in Michigan, by Months, Exhibiting the Number and Per Cent of Total for each of the Years 1875, 1876, 1877, 1878, 1879, 1880, 1881, and 1882, the months arranged in order by Number of Deaths, those having the Greatest Number first.

		1875.			1876.			1877.			1878.	
	Year and Months.	Num- ber.	Per Ct, of Total.	Year and Months.	Num- ber.	Per Ct. of Total.	Year and Months.	Num- ber.	Per Ct. of Total.	Year and Months.	Num- ber.	Per Ct. of Total.
ORDER.	Year	11,990	100.00	Year	12,576	100.00	Year	12,919	100.00	Year	12,766	100.00
1	Aug	1,223	10.19	Aug	1,507	11.98	Aug	1,559	12.07	Aug	1,371	10.74
2	Sept	1,219	10.17	Sept	1,423	11.32	Sept	1,400	10.84	Dec	1,369	10.72
3	Oct	1,000	9.01	Dec	1,153	9.17	Oct	1,221	9,45	Sept	1,343	10.52
4	Dec	1,065	8.88	Oct	1,131	8.99	Dec	1, 155	8.94	Oct	1,190	9.32
5	Mar	1,045	8.72	July	1,079	8.58	Nov	1,060	8.20	Nov	1,181	9.25
6	May	1,022	8.52	Nov	989	7.86	July	1,040	8.05	Apr	1,029	8.06
7	Apr	1,003	8.37	April	978	7.78	Mar	990	7.66	July	1,017	7.97
8	Xo <b>v</b>	928	7.74	Mar	975	7.75	April	978	7.57	Mar	930	7.28
9	Feb	898	7.49	Мау	970	7.71	May	976	7,55	May	923	7.23
10	July	843	7.45	June	855	6.80	June.	875	6.77	June	870	6.82
11	June	806	674	Feb	800	6.36	Feb	843	6.53	Feb	789	6.18
12	Jan	736	6.14	Jan	683	5.45	Jan	766	5.93	Jan	730	5.72
	Unk	71	.59	Unk	31	.25	Unk	56	.43	Unk	24	.19
-	AT	999.17	8.33	Av	1.048.00	8.33	Ατ	1,076.58	8.33	Δτ	<b>L</b> 063.83	8.3
		1879.			1550.			1881.			1882.	
	Year and Months	Num- ber.	Per Ct. of Total.	Year and Months.	Num-	Per Ct. of Total.	Year and Months.	Num- ber.	Per Ct. of Total.	Year and Months.	Num- ber.	Per of Tot
VER.		14.407	100.00	Year	10,102	100,00	Year	19,2%	100.00	Year	16,425	10
				_								_

103	1.19	170	15.	141	62:	117	88:	.53	10.1	76.	1.26	76:	.57	.93	18.	1.03	07.	-	18.	98.	1.09	95.1	99.	1.14	.75
-	18	-												_	123	26	-	1	_			79	53	87	250
-			-	_			_	_	_	_							_	1		46		-			-
6,948	4,187	28,100	1,150	6,819	31,237	6,630	39,990	1,127	8,499	21,930	32,725	22,473	20,08	33,676	33,873	6,873	12,159		42,03	34,349	2,937	73,25	4,97	3,23	30,138
40	20	201	14	96	246	78	346	9	38	213	413	218	114	313	275	11	96	-	364	297	250	992	28	37	722
62	9	236	п	22	250	99	338	7	78	197	360	196	135	300	314	110	100		431	343	83	815	250	22	265
	*********		********		19		6	-	61	-	14	*******	1	6.	16		1		10	19	01	169	1		16
625	45	236	11	27	210	19	329	+	99	197	346	396	134	294	866	110	66		421	976	31	646	31	21	549
25	30	246	13	89	968	51	342	4	88	192	408	169	134	340	346	90	96		378	341	36	899	68	16	920
01		01			01		00		10	1	00			6	88	7	OI		19	76	1	20	01		12
20	30	244	13	68	996	51	334	#	23	101	395	169	134	331	318	98	16		329	202	133	618	12	16	247
19	22	232	51	99	280	40	405	*	85	179	388	170	142	859	320	8	11	-	397	351	17	665	10	5	282
	- Contract	10		-	10	63	36	1	ю	φī	00,		*	05	11	-	-	-	1	11	1	83	60	-	-
19	12	655	21	60	975	38	306	03	77	17.1	380	170	138	326	339	48	70	***************************************	390	250	16	632	-	24	928
12	16	230	-	3	274	255	388	4	55	139	396	164	120	400	301	99	99		370	344	30	909	98	16	237
- 53	13	187		**	999	30	364	7	45	137	337	188	109	313	898	40	9		401	258	16	558	27	13	195
#		205		27	274	क्ष	326	-	23	119	372	152	129	291	286	11	99		364	366	11	611	40	12	197
14	19	198		222	172	316	342	91	09	142	382	136	112	346	273	81	252	***************************************	357	312	1-	829	200	11	197
10	9	906		28	282	83	316	-	40	104	430	136	78	283	978	61	69		380	319	6	635	35	14	198
Chippewa	Clare	Clinton	Crawford	Delta	Eaton	Emmet	Genesee	Gladwin	G'd Traverse	Gratiot	Hillsdalo	Houghton	Huron	Ingham	Ionia	Tosco	Isabella	Isle Royal	Jackson	Kalamazoo	Kalkaska	Kent	Кеwеепв	Lake	Lapeer

a No returns of marriages.

In Exhibit A may be seen, by sex, the number and proportion of deaths in 1882, by months equalized to uniform length. As thus equalized, the largest proportion is shown for the month of September and the least for January. The largest excess of males appears for June, and the smallest for February.

EXHIBIT A.—By Sex, the Number of Deaths Returned as having occurred in Michigan during the Year 1882, by Months Equalized to 30.44 days each;—Number of Deaths in each Month; Per Cent of Deaths in each Month to Total Deaths during the Year; and Per Cent and Excess of Per Cent of Deaths of each Sex to Total of both Sexes.

YEAR	1882,		DEATHS ETURNE IZED.		EACH	MONT	P DEAT	OTAL	TO TO	TAL OF	F EACH BOTH S SEX H DED.	EXES,
MONTHS,	200		Fe.				Fe-			Fe-	Exc	E88.
1882.	Total.	Males.	males.	Unk.	Total.	Males,	males.	Unk.	Males.	males.	Males.	Fe- males.
YEAR 1882	a 16,436	8,717	7,671	48	100,00	100.00	100.00	100.00	53.19	46.81	6.38	
January	961	515	445	1	5.85	5.91	5.80	2.08	53.65	46.35	7.30	
February	1,273	648	621	4	7.75	7.43	8.09	8.33	51.06	48.94	2.12	
March	1,347	702	642	3	8,20	8.05	8.37	6.25	52.23	47.77	4.46	
April	1,330	695	633	2	8.09	7,97	8.25	4.17	52,33	47.67	4.66	
May	1,454	778	671	5	8.85	8.93	8.75	10.42	53.69	46.31	7.38	
June	1,283	691	590	2	7.81	7.93	7.69	4.17	53.94	46.06	7.88	
July	1,261	671	585	5	7.67	7.70	7.63	10.42	53,42	46.58	6.84	
August	1,427	762	661	4	8.68	8.74	8.62	8.33	53,55	46.45	7.10	
September	1,567	839	724	4	9.53	9.63	9.44	8.33	53.68	46.32	7.36	
October	1,471	775	693	3	8.95	8.89	9.03	6.25	52.79	47.21	5.58	
November	1,442	771	666	5	8.77	8.84	8.68	10.42	53.65	46.35	7.30	
December	1,542	820	714	8	9.38	9.41	9.31	16.66	53.45	46.55	6.90	
Unknown	78	50	26	2	.47	.57	.34	4.17	65.79	34.21	31.58	
Averageb	1,363	722	637	4	8.33	8.33	8.33	8.33				

Eleven-4 males and 7 females—gained in equalizing. The total number of deaths returned.
 Unknown month excluded.

Exhibit B affords an opportunity of comparing the relative standing of the different months with regard to mortality during a series of years in the States of Massachusetts, Rhode Island, and Michigan. The months are placed in the order in which occurred the greatest number of deaths.

EXHIBIT B.—Months arranged in order by Number of Deaths,—those having the greatest Number first,—in Michigan for each of the Years 1879–1882, inclusive, as per Registration Returns, and for each of the Years 1880, 1881, and 1882, Corrected for Omissions in Enumerating; in Massachusetts for each of the Years 1880, 1881, and 1882; also in Rhode Island for each of the Years 1880, 1881, and 1882.

ORDER.	IST	RATION DING S	RETUI	ENS,	BECTI SIONS TING	HGAN, ED FOR IN ENT INCLU	OMIS- MERA- IDING	12	ACHUS	NO.	E	DE ISL XCLUD	ING
	1879.	1880,	1881.	1882.	1880.	1881.	1882.	1880.	1881.	1882.	1880.	1881.	1882.
1	Aug.	Aug.	Sept.	Dec.	Aug.	Aug.	May.	Aug.	Aug.	Aug.	July.	Aug.	Aug.
2	Dec.	Sept.	Aug.	Sept.	Sept.	Sept.	Mar.	July.	Sept.	Sept.	Aug.	Jan.	Nov.
3	Sept.	Dec.	Oct.	Oct.	July.	Oct.	Apr.	Sept.	Apr.	Apr.	Mar.	July.	Sept
4	Oct.	July.	Dec.	May.	Apr.	July.	Sept.	Dec.	Mar.	July.	Jan.	Oct.	July
5	Nov.	Nov.	July.	Aug.	Mar.	Apr.	Feb.	Mar.	Oct.	Jan.	Oct.	Apr.	May.
6	July.	Oct.	Nov.	Nov.	Dec.	May.	Aug.	Apr.	Jan.	Mar.	Apr.	Sept.	Dec.
7	Apr.	Apr.	May.	Mar.	Oct.	Dec.	Oct.	Oct.	July.	May.	May.	May.	Apr.
8	Mar.	May.	Apr.	Apr.	May.	Mar.	J'ne.	May.	Dec.	Dec.	Sept.	Mar.	Oct.
9	May.	Mar.	Mar.	July.	Nov.	Nov.	July.	Nov.	Feb.	Oct.	Dec.	Feb.	Jan.
10	Feb.	J'ne.	J'ne.	J'ne.	Feb.	J'ne.	Dec.	Jan.	May.	Feb.	Feb.	Dec.	Feb.
11	Jan.	Feb.	Feb.	Feb.	J'ne.	Jan.	Jan.	Feb.	Nov.	J'ne.	Nov.	Nov.	Mar.
12	J'ne.	Jan.	Jan.	Jan.	Jan.	Feb.	Nov.	J'ne.	J'ne.	Nov.	J'ne.	J'ne.	J'ne.

#### OMISSIONS IN THE ENUMERATION OF DEATHS.

The usual method of correcting the returns of deaths for omissions has been employed for the year 1882. It is assumed that the omissions bear a direct relation to the time between the occurrence of the deaths and their enumeration by the supervisors; and that the per cent to be added to each month should be more or less as the time is longer or shorter. Applying this system of correction to the deaths returned for 1882, it is seen that the average per cent to be added to the deaths returned to make them equal the number which probably occurred was 66.56. Adding this per cent it makes the estimated number of deaths for 1882 27,306. The proportion to be added for each month may be seen in the second line of Exhibits C and E, pages 132 and 134.

IBIT C.—Deaths in Michigan during the Year 1882, as Kelurned, as Corrected for Omissions in Enumerating, same Equalized for increase of Population during the Year covered by the Returns, and the Deaths as thus Corrected and Equalized for the several Months, Equalized for Months of a uniform length of 30.44 days; also, indicating some of the steps by which these results have been reached.

						M	ONTHE	MONTHS, 1882.					
	TOTAL.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Mar. Apr. May. June. July. Aug. Sept.	Sept.	Oct.	Nov.	Dec.
Deaths as returned by Registration Officers.  Per cont of deaths to be added for correction for time clapsing before enumeration.  Number of deaths to be added for above correction.		978	171,1 876 4.00 98.15 691,1 450,	1,372	1,311.	1,480	1,264 71.99	1,284 65.45 840	1,453 58.91 856	1,545	1,498	100000000000000000000000000000000000000	1,421 1,570 30,29 32,75 568 514
Deaths, if enumerated in months of occurrence	27,228	2,002	2,320	2,620	2,426	2,642	2,174	9,124	2,309	2,354	2,185	1,979 2,084	2,084
Per cent of deaths to be added to equalize them to population at close of year.  Deaths to be added to equalize them to population at close of year.	88	12.4	3.86	3.51	3.16	2.81	2.46	2.11	1.76	1.41	1.06	12. 24	18.
Deaths, as corrected, equalized to population at close of year	27,861	3,086	2,410	127,2	2,503	2,716	2,927	2,169	2,350	2,387	2,208		1,993 2,001
Days and hundredths by which the months should be increased or diminished to equalize them to months of uniform length.  Number by which the deaths should be increased or diminished to equalize them to months of uniform length.	- CS	56 +2.44		29 9	+.44	99-	-,56 +,44 -,56 +,44 -49 +37 -49 +33	35.	35	4. +	99 9	56 +.4456	1.06
Deaths, corrected and equalized, equalized to months of uniform length	27,910 2,048 2,620 2,672 2,540 2,667 2,260 2,130 2,308 2,422 2,108 2,022 2,003	2,048	2,620	2,672	2,540	2,667	2,980	2,130	2,308	2,422	2,168	2,022	2,053

a Excluding 78 deaths in unknown month.

Exhibit D shows the order of the months in which occurred the greatest number of deaths, after they have been corrected for omissions in the enumeration. It will be observed that the order of the months is not the same as in Table II.

EXHIBIT D.—Deaths during the Years 1877 to 1882, inclusive, as Corrected for Omissions in the enumeration, Exhibit-ing the Number and Per Cent of Total, by Months arranged in Order by Number, Months having the greatest number first.

_		1877.			1878.			1879.			1880.	1		1881.			1882.	
	Months.	Num- ber,	Per Ct. of Total.	Months.	Num- ber.	Per Ct. of Total.	Months.	Num- ber.	Per Ct. of Total.	Months.	Num-	Per Ct. of Total.	Months.	Num- ber.	Pet Ct. of Total.	Months.	Num- ber,	Per Ct. of Total.
HAGAO	Total.	18,341	100.00	Total	18,866	100.00	Total	20,583	100.00	Total	26,256	100.00	Total	27,387	100.00	Total	27,306	100.00
1	Aug	2,148	11.71	Aug	1,968	10.43	Aug	2,129	10.34	Aug	2,803	10.68	Aug	3,116	11.38	May	2,642	9.68
69	Sopt	1,870	10.20	Sept	1,863	9.87	Sept	1,884	9.15	Sept	2,532	9'64	Sept	3,093	11.29	Mar.	2,629	9.63
3 0	Oct	1,580	8.61	Dec	1,700	10.6	Dec	1,847	8.97	July	2,502	9.53	Oct	2,526	9.99	April	2,426	8.88
4	Mar	1,572	8.57	April	1,676	8.88	April	1,827	8.8	Apr	2,359	8.98	July	2,433	8.88	Sept	2,354	8.62
20	April	1,512	8.34	Oot	1,593	8.44	Mar	1,782	8.66	Mar	2,176	8.20	Apr	2,225	8.12	Feb	2,320	8.50
6 3	July	1,477	8.05	Mar	1,560	8.27	July	1,690	8.91	Dec	2,133	8.13	May	2,200	8.07	Aug	2,309	8.46
7 1	May	1,468	8.00	Nov	1,524	8.08	Oct	1,672	8.13	Oct	2,128	8.10	Dec	2,125	7.76	Oct	2,185	8.00
8 1	Dec	1,397	7.62	July	1,509	8,00	May	1,630	7.96	May	2,060	7.85	Mar.	2,107	7.69	June	2,174	7.96
8	Feb	1,374	7.49	May	1,459	7.73	Feb.	1,629	7.92	Nov	2,055	7.83	Nov	2,035	7.43	July	2,124	7.78
10 1	Nov	1,327	7.24	Feb	1,362	7.22	Nov	1,594	7.74	Feb	1,962	7.47	June	1,880	6.87	Dec	2,084	7.63
11 3	Jan	1,281	6.98	June	1,333	7.07	Jan	1,592	7.40	June	1,764	6.72	Jan	1,798	6.57	Jan	2,003	7.83
12 J	June	1,279	6.97	Jan	1,295	6.86	June	1,327	6.45	Jan	1,739	6.62	Feb	1,774	6.48	Nov	1,979	7.25
-	Unk	99	.31	Unk	24	.13	Unk	41	98:	Unk	43	.16	Unk	99	.24	Unk	78	86.
-	AV.a	1,598	8.83	AV. A	1,572	8.33	AV."	1,715	8.33	AV, 2	9,188	8,33	AV. 8	2,283	8.33	AV. A.	9,976	8,83

. Including deaths in unknown month.

						24	Монтив, 1883.	8, 1882.					
-	TOTAL	Jan	₩eb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Jan. Feb. Mar. Apr. May. June. July. Aug. Sept. Oct. Nov. Dec.	Mov.	Dec
by Registration Officers is to be added for correction for time clapsing before	a 16,347 978 104.60	104.00	1,171	1,872	1,811	1,480	1,480 1,284 1,488 78.58 71.99 65.45 58.91	1,284	1,468	1,545	- 3	, -7 <b>25</b>	1,670 88.73
to be added for above correction	1	7,00%	10,881 1,024 1,149 1,207 1,115 1,103 1,103 2,7,228 2,002 2,230 2,639 2,438 2,643	1,267	2,438	1,162	9. 17.	₹ 1 ¥	88 86	8   8 ×	10,881 1,034 1,140 1,237 1,115 1,163 910 840 866 800 867 877 87,238 2,002 2,330 2,639 2,438 3,648 2,174 2,124 3,300 3,384 3,185	1,979 2,084	3,084
by which the months should be increased or dimin.  Seekls should be increased or dimin.	9	25 85	56 +2.4456 +.445656 +.202 -47 +.36	88.1	13. 8	1 25 3	+ + + 88	+ . + . 58 + . 58 + . 58   . 1	25 ST	+ + 25. + 35. +	28, 28	4. 8	1     25   25
and equalized to months of uniform longth	27,274 1,000 2,632 2,632 2,634 3,306 3,036 2,337 3,339 2,146 2,008 2,046	1,000	2,522	2,562	2,462	2,564	3,306	3,086	2,267	2,380	2,146	3,008	2.046

is anknown month.

### AGES OF PERSONS WHO DIED IN MICHIGAN IN 1882.

TABLE IV.—Exhibiting, by Sex, and by Age in Periods of Years, the Number and Proportion of Persons Returned as having Died in Michigan during the Year 1882; also, the Excess of Persons of each Sex.

AGES IN YEARS	Nu	MBER O		rus,	ATE	T. OF D ACH AC AL AT AGES.	E TO		COTAL (	EACH S OF BOTH		EXCE THE S		Males
AND	Total	Males.	Fe-	Unk.	Total	Males.	Fe-	Males.	Fe-	Exc	ESS.	Males.	Fe-	100 Fe-
PERIODS.	Total	ana di too.	males.	Ouk,	Total.	an erce.	males.	Marce.	males.	Males.	Fe- males.	majen.	males,	males.
All Ages	16,425	8,713	7,664	48	100.00	100.00	100.00	53,20	46.80	6.40		1,049		113.69
Under 1	4,005	2,233	1,729	48	24.38	25.63	22.56	56.36	43.64	12.72		504		129.13
1 to 2	957	484	478		5.83	5,55	6.17	50.57	49.43	1.14		11		102.33
2 to 3	584	309	275		3.56	3.55	3.59	52.91	47.09	5,82		34		112.30
3 to 4	443	242	200	1	2,70	2,78	2.61	54.75	45.25	9.50		42		121.00
to 5	386	184	202		2.35	2.11	2.64	47.67	52.33		4.66		18	91.09
Under 5	6,375	3,452	2,879	44	38.81	39.62	87.57	54,58	45.47	9.06		573		116.43
5 to 10	1,178	602	576		7,17	6.91	7.52	51.10	48.90	2.20		26		104.5
10 to 15	657	306	351		4.00	3.51	4.58	46 58	53.42		6.84		45	87.1
15 to 20	665	283	382		4,05	3.25	4.98	42.56	57.44		14.88		99	74.0
20 to 25	817	416	400	1	4.97	4.78	5.22	50.98	49.02	1.96		16		104.0
25 to 30	615	287	328		3.75	3.29	4.28	46.67	53,33		6.66		41	87.5
30 to 35	518	246	272		3.15	2.82	3.55	47.49	52.51		5.02		26	90.4
35 to 40	506	252	254		3.08	2.89	3.31	49.80	50,20		40		2	99.2
40 to 45	488	245	243		2.97	2.81	3.17	50.20	49.80	.40		2		100.8
45 to 50	444	242	202		2.70	2.78	2.64	54.50	45.50	9.00		40		119.8
50 to 55	474	265	209		2.89	3.04	2.73	55.91	44.09	11.82		.56		126.7
55 to 60	470	263	207		2.86	3.02	2.70	55.96	44.04	11.92		-56		127.0
60 to 65	587	341	246		3.57	3.91	3.21	58.09	41.91	16.18		95		138.6
65 to 70	588	352	236		3.58	4.04	3.08	59,86	40.14	19.72		116		149.1
70 to 75	635	367	268		3.87	4.21	3.50	57.80	42.20	15 60		.99		136.9
75 to 80	501	295	206		3.05	3.39	2,69	58,88	41.12	17.76		89		143.2
80 to 85	382	210	172		2.33	2.41	2.24	54.97	45.03	9.94		38		122.0
85 to 90	154	84	70		.94	.97	.91	54.55	45.45	9.10		14		120.0
90 to 95	67	34	33		.41	.39	.43	50.75	49.25	1.50		1		103.0
95 to 100	25	11	14	****	.15	.13	.18	44.00	56.00		12.00		3	78.5
100 and over.	11	9	2	2	.07	.10	.02	81.82	18.18	63.64		7		450.0
Unk. Ages	268	151	114	3	1.63	1.78	1.49	56.98	43.02	13.96		37		132.4

TABLE V.—Exhibiting, by Sex and by Age in Periods of Years, the Number of Persons Returned as having Died in Michigan during the Year, and in each Month of the Year 1882.

AGES IN PERIODS		YEAR,		-			1	MON'	rhs,	1882.				1	
OF YEARS.	SEX.	1882.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Ang.	Sept.	Oct.	Nov.	Dec.	Unk,
	Total	16,425	978	1171	1372	1311	1480	1264	1284	1453	1545	1498	1421	1570	7
	Males	8,713	524	596	715	685	792	681	683	776	827	789	760	835	5
All Ages	Females	7,664	453	571	654	624	683	581	596	673	714	706	656	727	0
	Unknown	48	1	4	3	2	5	2	5	4	4	3	5	8	13
1	Total	4,005	197	238	290	288	329	265	334	500	475	377	300	403	-
0.00	Males	2,233	122	129	166	169	181	151	185	269	272	210	156	221	
Under 1	Females	1,729	74	106	121	117	144	112	145	228	200	164	139	174	B
	Unknown	43	1	3	3	2	4	2	4	3	3	3	5	8	
	Total	6,375	363	426	487	449	515	428	514	715	722	596	526	617	ı,
interpretation of	Males	3,452	213	228	271	244	274	236	275	397	394	315	276	322	B
All Under 5	Females	2,879	149	194	213	203	237	190	235	315	325	278	245	287	
	Unknown	44	1	4	3	2	4	2	4	3	3	3	5	8	в
1	Total	1,178	81	86	118	94	95	88	76	91	81	102	132	133	
to 10	Males	602	33	39	64	47	45	52	38	47	-53	52	66	66	
	Females	576	48	47	54	47	50	36	38	44	28	50	66	67	
	Total	657	43	46	57	46	47	68	60	46	45	79	69	49	
0 to 15	Males	306	21	12	24	27	21	35	29	30	15	35	35	21	Н
+	Females	351	22	34	33	19	26	33	31	16	30	44	34	28	ı
	Total	665	37	59	57	63	69	61	56	39	54	60	59	48	
5 to 20	Males	283	19	29	20	29	35	27	24	6	24	21	26	21	
A CONTRACTOR OF THE PARTY OF TH	Females	382	18	30	37	34	34	34	32	33	30	39	33	27	
- 3	Total	817	43	64	80	77	81	62	69	64	62	84	70	56	
Part .	Males	416	26	34	34	27	38	35	37	33	30	50	39	20	
0 to 25	Females	400	17	30	46	50	48	27	32	30	32	34	31	27	
	Unknown	1								1					
	Total	615	41	39	55	47	64	56	46	46	61	66	51	41	-
5 to 30	Males	287	18	22	20	23	35	26	21	15	28	25	29	24	
	Females	328	23	17	35	24	29	30	25	31	33	41	22	17	
	Total	518	36	36	36	52	48	47	32	52	53	49	44	33	
0 to 35	Males	246	16	16	20	17	26	24	15	26	19	27	25	1	
Contract designation	Females	272	20	20	16	35	22	23	17	26	34	22	19	-	
	Total	506	36	40	47	43	40	45	41	28	42	47	47	-	
5 to 40	Males	252	19	17	19	21	20	23	22	13	18	23	27	30	
and the second second	Females	254	17	23	28	22	20	22	19	15	24	24	20	20	
	Total	488	35	41	38	47	47	36	40	38	42	31	43	48	
10 to 45	Males	245	14	17	23	28	23	17	22	23	20	18	21	18	
and the second second	Females	243	21	24	15	19	24	19	18	15	22	13	22	30	

TABLE V .- CONTINUED .- Deaths by Periods of Age, by Sex, by Months.

LONG BY PERIODS		1				-	N	IONT	HS,	1882.				7	=
AGES IN PERIODS OF YEARS.	SEX.	YEAR, 1882.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
	Total	444	31	34	44	36	46	31	40	37	33	33	37	39	3
45 to 50	Males	242	22	17	19	20	31	12	19	18	19	16	23	26	
The state of the s	Females	202	9	17	25	16	15	19	21	19	14	17	14	13	-
	Total	474	25	35	43	43	43	45	36	36	38	40	40	50	
50 to 55	Males	265	12	23	31	26	21	25	22	17	19	23	19	27	
	Females	209	13	12	12	17	22	20	14	19	19	17	21	23	
	Total	470	23	30	-56	41	42	33	47	30	39	38	36	54	1
55 to 60	Males	263	14	16	31	27	20	21	23	15	25	20	18	32	1
	Females	207	9	14	25	14	22	12	24	15	14	18	18	22	****
	Total	587	29	47	50	52	51	57	42	41	46	48	52	70	2
60 to 65	Males	341	12	25	24	23	38	29	29	27	32	28	31	41	2
	Females	246	17	22	26	29	13	28	13	14	14	20	21	29	
	Total	588	37	46	38	62	65	56	42	44	58	42	45	44	9
65 to 70	Males	352	23	25	21	37	41	35	22	22	38	29	28	23	8
	Females	236	14	21	17	25	24	21	20	22	20	13	17	21	1
	[Total	635	40	45	51	47	70	48	44	52	41	68	48	80	1
70 to 75	Males	367	21	28	31	26	42	28	24	33	18	39	30	46	1
	Females	268	19	17	20	21	28	20	20	19	23	29	18	34	
	Total	501	23	40	43	51	50	30	39	31	50	35	44	65	
75 to 80	Males	295	12	20	27	31	29	20	26	19	33	19	21	38	
	Females	206	11	20	16	20	21	10	13	12	17	16	23	27	
	Total	382	20	26	35	27	40	37	25	29	30	34	40	35	4
80 to 85	Males	210	11	13	17	13	19	18	16	18	18	21	23	20	3
	Females	172	9	13	18	14	21	19	9	11	12	13	17	15	1
	[Total	154	8	14	14	10	18	14	9	9	16	12	14	16	
85 to 90	Males	84	5	6	6	4	15	8	6	3	9	6	7	9	
	Females	70	3	8	8	6	3	6	3	6	7	6	7	7	
	Total	67	6	2	8	3	11	1	3	5	6	7	3	12	
90 10 95	Males	34	1	1	5	3	1		3	2	5	3	2	8	
	Females	33	5	1	3		10	1		3	1	4	1	4	
	(Total	25	1	2	2	2	2	2	1		4	2	3	4	
95 to 100	Males	11		1	1	2	1	1					1	4	
	Females	14	1	1	1		1	1	1		4	2	2		
	Total	11	1	2	2	1	1		1	1		1		1	
100 and over	Males		1	2	2		1		1	1		1			
	Females	2				1								1	
	[Total	268	19	11	11	18	35	19	21	19	22	24	18	25	26
Unknown	Males	151	11	5	- 5	10	16	9	9	11	10	18	13	15	19
Junown	Females	114	8	6	6	8	18	10	11	8	11	6	5	10	7
-	Unknown	. 3					1		1		1				

The interesting relations of age and sex to mortality, with the percentage of decedents in each period of age to the whole number of deaths, may be studied in Table IV, page 135. The column of percentages headed "Per cent of deaths at each age to total at all ages," tells the story of mortality at different periods of life. It shows that, in 1882, nearly a fourth of all the deaths were those of children under one year of age, and that more than a third of the total mortality fell on children under five.

The proportion of deaths under five years of age, in 1882, was smaller than in any previous year since the registration in this State, the per cent for the year being 38.81, while the average per cent for the thirteen years 1870–1882 was 40.51. As has been stated before, there was a marked decrease in some of the prominent causes of death among children in 1882. This was especially

true of diphtheria and diarrhea.

The proportion of males and females among the decedents at different ages is also shown in this table. In the period under one year of age, the deaths of males largely predominate, which corresponds to the excess of males among the births; but from 5 to 45 there is an excess among female decedents. This is true, not only for 1882, but also for the average for thirteen years 1870–1882.

Among the decedents under one year of age there were 129 males to 100 females, and among those under five years of age there were 116 males to 100 females. In the average for thirteen years, there was an excess of 3.08 per cent of male decedents under one year of age, and an excess of 2.73 per cent

under five years of age.

In Exhibit F, page 136, may be seen the number of deaths in 1882 for both males and females at each age. It presents some significant contrasts with regard to the sex of decedents. It will be noticed that more male infants diethan female, and that between the ages of fifteen and twenty, female lives are encroached upon more than males.

### DEATHS BY MONTHS AT DIFFERENT AGES.

The relative proportion of decedents at different periods of life and in the several months of the year may be studied in Exhibit G. Of the decedents in the month of January, 20.14 per cent died under one year of age; 37.12 per cent died under five years of age, etc. There were 1,453 deaths returned in the month of August, of which 34.41 per cent died under one year of age, and 49.21 per cent died under five years of age. Of the 6,358 decedents under five years, 5.71 per cent died in January, 6.70 per cent died in February, and 11.36 per cent in September, the greatest proportion.

For 1882, the largest proportion of decedents under one year of age died in the month of August, and the largest proportion under five, died in the month of September. The teaching of this exhibit, for ten years 1873-1882, has been that August was the month of greatest danger to children under five. To children between the ages of 5 and 10 years, and adults over 50 the greatest

danger is in December.

The midsummer season has always been unfavorable to life, and especially is

this true among children.

Tables V. and VI. give further details concerning deaths by sex, by months, and periods of age.

DEATHS BY ACES IN	GES IN PERIODS OF YEARS.	YEAE,					M	MONTHS,	, 1882.					
	S. Santa	1882.4	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept	Oct.	Nov.	Dec.
All ages		16,347	978	1,171	1,372	1,311	1,480	1,964	1,284	1,453	1,546	1,498	1,421	1,570
	Number	3,096	197	183	290	288	329	365	334	200	475	377	300	403
Under 1	Per cent of all ages	24.44	20.14	20.32	21.14	21.97	22.23	20.97	26.01	84.41	30.74	25.17	21.11	25.67
	Per cent of deaths, 1882	100.00	4.93	5.96	7.96	7.21	8.23	6.63	8.36	12.51	11.88	9.43	7.51	10.00
	(Number	6,358	363	426	487	419	515	428	514	715	722	596	526	617
Under 5	Per cent of all ages	38.89	37.12	36.38	35.50	34.25	34.80	33.80	40.03	49.21	46.73	39.70	37.02	39.30
	Por cent of deaths, 1882	100.00	5.71	6.70	7.66	7.06	8.10	6.73	8,08	11.25	11.36	9.38	8.27	9.70
	(Number	1,177	81	98	118	16	92	88	76	16	81	102	132	133
5 to 10	Per cent of all ages	7.20	8.28	7.34	8.60	7.17	6.42	6.96	5.95	6.96	5.94	6.81	9.20	8.47
	Per cent of deaths, 1882	100.00	6.88	7.31	10.03	7.99	8.07	7.48	6.45	7.73	6.88	8.67	11.21	11.30
	Number	1,817	80	105	114	100	116	129	116	85	88	130	128	16
10 to 20	Per cent of all ages	8.06	8.18	8.97	8.31	8.31	7.84	10,91	9.03	5.85	6.41	9.28	10.6	6.18
	Per cent of deaths, 1882	100.00	6.07	7.97	8.66	8.58	8.81	9.79	8.81	6.45	7.52	10.55	9.72	7.37
	Number	3,376	222	254	300	305	326	277	896	302	293	310	292	267
20 to 50	Per cent of all ages	20.65	22,70	21.69	21.87	23.04	22.03	21.01	20.87	18.24	18.96	20,69	20.55	17.01
	Per cent of deaths, 1882	100.00	6.58	7.52	8.80	8.94	99.6	8.20	7.94	7.85	8.68	9.18	8.65	7.91
	(Number	3,877	213	280	342	339	393	323	980	878	328	327	325	431
50 and over	Per cent of all ages	23.73	21.78	24.68	24.93	92.86	26.55	25.55	22.51	19.13	21.23	21.83	22.87	27.45
	Per cent of deaths, 1882	100.00	5.49	7.45	8.83	8.74	10.14	8.33	7.45	7.17	8.46	8.45	8.38	11.12
	Number	242	10	п	11	18	125	19	21	19	81	16	. 18	23
Unknown ages	Unknown ages   Per cent of all ages	1.48	1.93	16"	98:	1.37	2.36	1.50	1.64	1.31	1.42	1,60	1.27	1.69
	Don cont of Josephy 1000	20000			0	-		The same	-					

a Excluding unknown month.

TABLE V.—Exhibiting, by Sex and by Age in Periods of Years, the Number of Persons Returned as having Died in Michigan during the Year, and in each Month of the Year 1882.

AGES IN PERIODS		YEAR.					1	MON'	гнв,	1882.					
OF YEARS.	SEX.	1882.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oet,	Nov.	Dec.	Unk.
	Total	16,425	978	1171	1372	1311	1480	1264	1284	1453	1545	1498	1421	1570	78
	Males	8,713	524	596	715	685	792	681	683	776	827	789	760	835	50
All Ages	Females	7,664	453	571	654	624	683	581	596	673	714	706	656	727	26
	Unknown	48	1	4	3	2	5	2	5	4	4	3	5	8	2
	Total	4,005	197	238	290	288	329	265	334	500	475	377	300	403	- 0
1	Males	2,233	192	129	166	169	181	151	185	269	272	210	156	221	2
Under 1	Females	1,729	74	106	121	117	144	112	145	228	200	164	139	174	5
	Unknown	43	1	3	3	2	4	2	4	3	3	3	5	8	9
	Total	6,375	363	426	487	449	515	428	514	715	722	596	526	617	17
	Males	3,452	213	228	271	244	274	236	275	397	394	315	276	322	7
All Under 5	Females	2,879	149	194	213	203	237	190	235	315	325	278	245	287	8
	Unknown	44	1	4	3	2	4	2	4	3	3	3	5	8	2
9	Total	1,178	81	86	118	94	95	88	76	91	81	102	132	133	1
5 to 10	Males	602	33	39	64	47	45	52	38	47	58	52	66	66	
	Females	576	48	47	54	47	50	36	38	44	28	50	66	67	1
	Total	657	43	46	57	46	47	68	60	46	45	79	69	49	2
10 to 15	Males	306	21	12	24	27	21	35	29	30	15	35	35	21	1
	Females	351	22	34	33	19	26	33	31	16	30	44	34	28	1
	Total	665	37	59	57	63	69	61	56	39	54	60	59	48	3
15 to 20	Males	283	19	29	20	29	35	27	24	6	24	21	26	21	2
	Females	382	18	30	37	34	34	34	32	33	30	39	33	27	1
-	Total	817	43	64	80	77	81	62	69	64	62	84	70	56	5
20 to 25	Males	416	26	34	34	27	38	35	37	33	30	50	39	29	. 4
20 00 20	Females	400	17	30	46	50	43	27	32	30	32	34	31	27	1
1	Unknown	1								1					
4	Total	615	41	39	55	47	64	56	46	46	61	66	51	41	2
25 to 30	Males	287	18	22	20	23	35	26	21	15	28	25	29	24	1
	Females	328	23	17	35	24	29	30	25	31	33	41	22	17	1
	Total	518	36	36	36	52	48	47	32	52	53	49	44	33	
30 to 35	Males	246	16	16	20	17	26	24	15	26	19	27	25	15	
	Females	272	20	20	16	35	22	23	17	26	34	22	19	18	
21	Total	506	36	40	47	43	40	45	41	28	42	47	47	100	
35 to 40	Males	252	19	17	19	21	20	23	22	13	18	23	27	30	
1)	Females	254	.17	23	28	22	20	22	19	15	24	24	20	20	
	Total	488	35	41	38	47	47	36	40	38	42	31	43	48	2
40 to 45	Males	245	14	17	23	28	23	17	22	23	20	18	21	18	1
	Females	243	21	24	15	19	24	19	18	15	22	13	22	30	1

TABLE VI.—Continued.—Deaths by Ages, by Sex, by Months.

AGES		YEAR,					Mon	тнs,	1882						
YEARS.	Sex.	1882.	Jan,	Feb.	Mar.	Apr.	May.	June.	July.	Yug.	Sept.	Oot.	Nov.	Dec.	Unk.
	Total	163	11	12	16	16	22	14	16	4	8	19	12	11	
23	Males	79	8	5	7	6	11	6	10	2	2	11	7	3	
	Females .	84	3	7	9	10	11	8	6	2	6	8	5	8	
	Total	159	10	14	21	18	9	13	9	14	17	12	13	8	
24	Males	78	5	7	4	7	4	8	5	7	8	9	7	6	
	Females .	81	5	7	17	11	5	5	4	7	9	3	6	2	
	Total	127	9	8	11	8	12	18	9	8	12	11	14	6	0
25	Males	56	3	3	5	3	5	9	4	3	4	5	9	3	
-	Females .	71	6	5	6	5	7	9	5	5	8	6	5	3	1
	Total	128	12	11	14	4	11	11	7	6	12	20	10	10	
96	Males	63	4	G	9	3	6	4	4	2	5	9	0	5	
	Females .	65	8	5	5	1	5	7	3	4	7	11	4	5	
	Total	125	8	5	15	11	20	10	7	9	12	15	8	5	
27	Males	53	4	.5	4	7	12	3	1	1	4	5	5	9	
	Females .	72	4		11	4	8	7	6	8	8	10	3	3	
	Total	146	7	12	12	12	15	9	15	11	19	10	11	13	
28	Males	72	4	5	1	6	9	6	9	4	11	3	5	9	
	Females .	74	3	7	11	6	6	3	6	7	8	7	6	4	
	Total	89	5	3	3	12	6	8	8	12	6	10	8	7	1 :
29	Males	43	3	3	1	4	3	4	3	5	4	3	4	5	1 :
	Females .	46	2		9	8	3	4	5	7	2	7	4	2	
	Total	111	8	10	8	14	12	4	7	10	11	12	12	3	
30	Males	56	3	4	4	6	5	8	4	4	4	8	9	2	-:
	Females.	55	5	6	4	8	7	1	3	6	7	4	3	1	
	Total	84	3	4	7	8	7	12	4	11	9	10	4	5	
31	Males	34	1	2	5	2	4	4	1	3	.5	3	1	3	
	Females.	50	2	2	2	6	3	8	3	8	4	7	3	2	
4.0	Total	117	5	6	6	12	11	12	5	11	15	13	10	11	
32	Males	60	2	3	8	3	7	6	4	7	5	8	6	6	
	Females .	57	3	3	3	0	4	6	1	4	10	5	4	5	
	Total	110	14	8	8	10	7	5	10	12	11	9	9	7	***
33	Males	50	7	2	7	4	3	2	5	6	3	4	5	2	***
100	Females .	60	7	6	1	6	4	3	5	6	8	5	4	5	
	Total	96	6	8	7	8	11	14	6	8	7	5	9	7	
		46	3	5	1	2	7	9	1	6	2	4	4	2	
		50	3	3	6	6	4	5	5	2	5	1	5	5	

TABLE VI.—Exhibiting, by Sex and by Months, the Number Returned as having died in Michigan during the Year 1882 at each and every Age, the Age stated in Twelfths of a Year for those under One Year, and in Years for those over One Year of Age.

AGE8	5	YEAR,					Мох	THS,	1882	•					
YEARS.	SEX.	1882.	Jan.	Feb.	Mar.	Apr.	May.	Jane.	July.	Aug.	Sept.	Oct.	NOV.	D 66.	Unk.
	Total	1,870	113	134	152	145	153	138	159	180	142	159	154	235	6
	Males	1,045	71	78	81	83	82	80	89	100	86	95	81	118	1
Under 1-12	Females.	789	41	53	69	61	67	57	66	78	53	62	69	110	3
	Unknown	36	1	3	2	1	4	1	4	2	8	2	4	7	2
!	Total	332	8	20	22	21	33	24	20	41	42	45	25	31	
1-12	Males	173	4	10	16	12	15	8	9	23	25	27	10	14	
1-12	Females.	158	4	10	6	9	18	16	11	18	17	18	14	17	ļ
į	Unknown	1		•					<b></b>		ļ		1		
1	Total	263	10	7	16	21	18	18	29	31	36	23	22	30	2
2-12	Males	160	6	5	9	13	11	8	20	16	23	14	12	22	1
	Females.	100	4	2	7	8	7	9	9	15	13	8	10	7	1
į	Unknown	8	<b></b>		•••••	•		1	ļ			1		1	
(	Total	238	7	13	12	12	29	15	19	84	87	29	14	17	
3-12	Males	115	4	5	6	5	15	9	6	11	20	13	7	14	
0-12::::::	Females.	122	8	8	6	6	14	6	13	23	17	16	7	3	
į	Unknown	1				1		<b></b>	<b></b> -						
(	Total	219	12	14	12	9	15	11	14	50	33	15	19	22	
4-12	Males	130	8	9	9	3	11	7	7	33	20	7	6	10	
1-12	Females.	88	4	5	3	6	4	4	7	16	13	8	6	19	
į	Unknown	1								1					
{	Total	192	13	6	13	15	10	9	20	25	36	13	19	13	
5-12	Males	107	7	8	6	9	7	5	11	14	18	4	13	10	
0-13	Females.	84	6	3	6	6	3	4	9	11	18	9	6	8	
į	Unknown	1			1		•••••								
	Total	211	9	12	12	15	13	12	22	35	84	23	13	11	1
6-12	Males	118	6	4	8	9	8	9	14	18	16	10	9	7	
į	Females.	93	8	8	4	6	5	8	8	17	18	19	4	4	1
(	Total	147	3	5	13	11	10	6	8	28	27	18	9	9	•
7-12	Males	89	2	2	10	8	8	6	8	17	21	8	4	5	
į	Females.	58	1	8	8	8	7		5	11	6	10	5	4	•
	Total	143	2	7	12	6	16	7	8	23	22	19	10	11	
8-19	Males	77	1	4	7	4	10	3	6	18	12	11	2	4	
į	Females.	66	1	8	5	2	6	4	2	10	10	8	8	7	
1	Total	132	6	8	12	16	11	6	13	14	14	16	6	10	
9–12	Males	76	4	8	7	11	6	4	8	7	8	10	2	6	
į	Females.	56	2	5	5	5	5	2	5	7	6	6	4	4	•
		<del></del>						<u> </u>							

TABLE VI.—CONTINUED.—Deaths by Ages, by Sex, by Months.

AGES		YEAR,				-	Mon	тив,	1882						
TEARS.	Sex.	1882.	Jan.	Feb.	Mar.	Apr.	May.	Jane.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
	Total	120	7	6	8	11	9	7	12	17	19	8	8	8	
10-12	Males	65	5	2	5	7	6	4	4	5	9	6	6	6	
	Females .	55	2	4	3	4	3	3	8	12	10	2	2	2	
	[Total	138	7	6	6	6	12	12	10	22	33	10	8	6	
11-12	Males	78	4	4	2	5	7	8	8	12	14	5	4	5	
	Females.	60	3	2	4	1	5	4	2	10	19	5.	4	1	
	Total	957	49	80	70	63	76	59	81	116	124	92	74	71	
	Males	484	24	40	41	25	33	31	37	65	68	42	43	34	
	Females.	473	25	40	29	38	43	28	44	51	56	50	31	37	13
	Total	584	43	38	55	53	44	46	43	46	42	59	52	62	
	Males	309	23	19	25	28	23	28	24	33	21	31	25	28	
	Females .	275	20	19	30	25	21	18	19	13	21	28	27	34	
	Total	443	38	33	33	27	39	32	36	25	46	38	53	41	B
	Males	242	21	19	18	13	24	15	19	17	21	20	32	21	
3	Females .	200	17	13	15	14	15	17	17	8	25	18	21	20	/
	Unknown	1		1											
	Total	386	36	37	39	18	27	26	20	28	35	30	47	40	
4	Males	184	23	21	21	9	13	11	10	13	12	12	20	18	
	Females.	202	13	16	18	9	14	15	10	15	23	18	27	22	
	Total	319	29	22	28	27	21	30	13	27	22	28	40	32	
5	Males	179	9	12	21	14	11	19	5	16	16	11	25	20	
	Females .	140	20	10	7	13	10	11	8	11	6	17	15	12	
	(Total	266	20	21	20	20	19	18	17	29	25	22	21	84	
6	Males	138	9	10	7	12	10	10	10	16	14	10	10	20	
	Females.	128	11	11	13	8	9	8	7	13	11	12	11	14	
	Total	260	13	20	34	21	27	20	99	14	13	22	24	80	-
7	Males	128	5	9	19	11	10	12	12	3	8	15	8	16	
	Females .	132	8	11	15	10	17	8	10	11	5	7	16	14	
	Total	188	11	11	20	16	16	10	14	10	12	16	26	25	
8	Males	87	7	4	7	5	10	5	7	7	8	8	13	6	-
	Females .	101	4	7	13	11	6	5	7	3	4	8	13	19	
	[Total	145	8	12	16	10	12	10	10	11	9	14	21	12	
	Males	70	3	4	10	5	4	6	4	5	7	8	10	4	
	Females .	75	5	8	6	5	8	4	6	6	2	6	11	8	
	[Total	155	9	11	16	7	8	18	15	8	13	19	17	13	
10	Males	73	5	4	5	5	3	13	7	5	4	6	9	6	
	Females.	82	4	7	11	2	5	5	8	3	9	13	8	7	

TABLE VI.—CONTINUED.—Deaths by Ages, by Sex, by Months.

AGES	_	YEAR,					Mon	THS,	188	2.					
IN YEARS.	SEX.	1882.	Jan.	Feb.	Mar.	Apr.	May,	June	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
1	Total	136	7	9	12	13	10	12	16	8	5	19	10	15	
1	Males	60	3	1	8	8	3	4	8	5		10	4	6	
i	Females.	76	4	8	4	5	7	8	8	3	5	9	6	9	
1	Total	140	11	7	31	11	10	18	12	12	10	16	15	7	
2 ·	Males	64	7	2	2	3	8	9	6	6	4	6	9	2	
	Females.	76	4	5	9	8	2	9	6	6	6	10	6	5	
1	Total	113	5	9	12	9	7	11	9	11	8	12	14	6	
3	Males	59	1	1	6	7	2	6	5	8	3	9	6	5	
į	Females.	54	4	8	6	2	5	5	4	3	5	3	8		
	Total	113	11	10	6	6	12	9	8	7	9	13	13	8	
4	Males	50	5	4	3	4	5	3	3	6	4	4	7	2	
	Females.	63	6	6	3	2	7	6	5	1	5	9	6	6	
!	Total	98	4	11	9	8	8	9	9	7	6	8	9	10	
5	Males	39	2	3	4	2	4	5	5	1	3	1	5	4	
	Females.	59	2	8	5	6	4	4	4	6	3	7	4	6	
!	Total	112	8	12	9	9	8	11	8	13	7	10	7	10	
3	Males	40	3	6	3	5	4	2	2	1	3	3	4	4	
į	Females_	72	5	6	6	4	4	9	6	12	4	7	3	6	
1	Total	163	12	12	15	14	20	16	16	10	9	12	13	12	
'	Males	80	7	7	4	5	11	11	9	2	4	8	6	5	
l	Females.	83	5	5	11	9	9	5	7	8	5	4	7	7	
1	Total	149	6	y	11	17	22	10	11	4	16	21	11	10	
·	Males	56	4	4	4	7	10	2	4		5	6	3	6	
- (	Females.	93	2	5	7	10	12	8	7	4	11	15	8	4	
إ	Total	143	7	15	13	15	11	15	12	5	16	9	19	6	
)	Males	68	8	9	5	10	6	7	4	2	9	3	8	2	••
l	Females.	75	4	6	8	.5	5	8	8	3	7	6	11	4	
١	Total	166	5	11	13	11	19	13	14	18	12	18	20	12	
) <u> </u>	Males	88	2	7	9	5	7	8	7	8	6	8	15	6	
۲۰۱ ا	Females.	77	3	4	4	6	12	5	7	9	6	10	5	6	
j (	Unknown	1								1		****			
ſ	Total	150	5	13	12	13	15	12	15	12	9	20	11	13	
·{	Males	77	2	7	6	3	8	7	6	8	5	13	. 5	7	
l	Females.	78	3	6	6	10	7	5	9	4	4	7	6	6	
(	Total	179	12	14	18	19	16	10	15	16	16	15	14	12	
	Males	94	9	8	8	6	8	6	9	8	9	9	5	7	
1	Females.	85	3	6	10	13	. 8	4	6	8	7	6	9	5	

TABLE VI.—Continued.—Deaths by Ages, by Sex, by Months.

AGES	222	YEAR,					MON	тнs,	1882		~				
YEARS.	SEX.	1882.	Jan.	Fcb.	Mar.	Apr.	May.	Jane.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
	Total	163	11	12	16	16	22	14	16	4	8	19	12	11	1
3	Males	79	8	5	7	6	11	6	10	2	2	11	7	3	
	Females .	84	3	7	9	10	11	8	6	2	6	8	5	8	
19	Total	159	10	14	21	18	9	13	9	14	17	12	13	8	
4	Males	78	5	7	4	7	4	8	5	7	8	9	7	6	
	Females .	81	5	7	17	11	5	5	4	7	9	3	6	2	
	Total	127	9	8	11	8	12	18	9	8	12	11	14	6	
5	Males	56	3	3	5	3	5	9	4	3	4	5	9	3	
	Females .	71	G	5	6	5	7	9	.5	5	8	6	5	3	
	Total	128	12	11	14	4	11	11	7	6	12	20	10	10.	
G	Males	63	4	6	9	3.	6	4	4	9	5	9	0	5	
	Females.	65	8	5	5	1	5	7	3	4	7	11	4	5	
	Total	125	8	5	15	11	20	10	7	9	12	15	8	5	
7	Males	53	4	5	4	7	12	3	1	1	4	5	5	9	
	Females .	72	4		11	4	8	7	- 6	8	8	10	3	3	
	Total	146	7	12	19	12	15	9	15	11	19	10	11	13	
8	Males	72	4	5	1	6	9	a	9	4	11	3	5	9	
	Females .	74	3	7	11	6	6	3	6	7	8	7	-6	4	
	Total	89	5	3	3	12	6	8	8	12	6	10	8	7	1
29	Males	43	3	3	1	4	3	4	3	5	4	3	4	5	1
	Females .	46	2		2	8	3	4	5	7	2	7	4	2	
	Total	111	8	10	8	14	12	4	7	10	11	12	12	3	
30	Males	56	3	4	4	6	5	3	4	4	4	8	9	2	-1-
	Females .	55	5	6	4	8	7	1	3	6	7	4	3	1	
	Total	84	3	4	7	8	7	12	4	11	9	10	4	5	
31	Males	34	1	2	5	2	4	4	1	3	.5	3	1	3	
	Females.	50	2	2	2	6	3	8	3	8	4	7	3	2	
	Total	117	5	6	6	12	11	12	5	11	15	13	10	11	
32	Males	60	2	3	8	3	7	6	4	7	5	.8	6	6	
	Females.	57	3	3	3	9	4	6	1	4	10	5	4	5	
	Total	110	14	8	8	10	7	5	10	12	n	9	9	7	
33	Males	50	7	2	7	4	3	2	5	6	3	4	5	2	
	Females.	60	7	6	1	G	4	.3	5	6	8	5	4	5	
	Total	96	6	8	7	8	11	14	6	8	7	5	9	7	
34	Males	46	3.	5	1	2	7	9	1	6	2	4	4	2	
	Females .	50	3	3	a	6	4	5	5	2	.5	1	5	5	

TABLE VI.—Continued.—Deaths by Ages, by Sex, by Months.

AGES	1.5	YEAR,					Mon	тив,	1882						
YEARS.	SEX.	1882,	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Uak.
	Total	150	14	18	14	11	19	12	11	11	9	19	9	12	
35	Males	77	7	7	7	7	5	7	6	4	5	11	6	5	
	Females .	73	7	11	7	4	5	5	5	7	4	8	3	7	
	Total	96	4	7	5	9	8	9	7	5	6	14	11	11.	
36	Males	49	3	3	1	3	4	6	-5	1	3	6	5	9	
	Females .	47	1	4	4	6	4	3	2	4	3	8	6	2	
	Total	75	4	3	7	13	8	6	. 5	3	7	4	4	11	
37	Males	32	2		9	7	2	3	2	2	2	2	1	7	
	Females .	43	2	3	5	6	6	3	3	1	5	2	3	4	
	Total	98	8	6	10	5	8	10	9	5	10	5	13	9	
38	Males	53	5	2	4	2	6	4	5	3	4	2	10	6	
	Females .	45	3	4	6	3	2	6	4	2	6	3	3	3	
	Total	87	6	6	11	5	6	8	9	4	10	5	10	7	
39	Males	41	2	5	5	2	3	3	4	3	4	2	5	3	
	Females.	46	4	1	6	3	3	5	5	1	6	3	5	4	
	Total	125	6	12	5	16	12	10	6	7	14	10	13	12	2
40	Males	66	1	5	3	7	8	2	4	5	10	7	8	5	1
	Females	59	5	7	2	9	4	8	2	2	4	3	5	7	1
	Total	73	7	7	10	5	7	8	6	7	4	1	5	6	
41	Males	31	3	4	6	2	1	4	-5	2			2	2	
	Females	42	4	3	4	3	6	4	1	5	4	1	3	4	
	Total	113	8	9	4	13	7	8	11	11	12	7	11	12	
19	Males	50	2	3	1	11	2	3	5	8	4	3	5	3	
	Females	63	6	6	3	2	5	5	6	3	8	4	6	9	
	Total	85	8	6	. 9	7	7	4	7	7	8	8	7	7	ļ
43	Males	43	6	2	5	3	5	3	2	4	3	4	3	3	
	Females	42	2	4	4	4	2	1	5	3	5	4	4	4	
	Total	92	6	7	10	6	14	6	10	6	4	5	7	11	
44	Males	55	2	3	8	5	7	5	6	4	3	4	3	5	ļ
	Females	37	4	4	2	1	7	1	4	2	1	1	4	6	ļ
	Total	116	11	9	13	7	11	7	11	10	8	8	11	9	1
45	Males	65	9	3	6	3	8	1	4	6	7	3	9	6	
	Females	51	2	6	7	4	3	6	7	4	1	5	2	3	1
	Total	70	3	2	8	6	11	4	6	4	6	8	4	8	
40	Males	1	3	2	3	4	6	. 2	3	2	4	5	3	8	
	Females	25			5	2	5	2	3	2	2	3	1		
	Total	84	3	8	7	11	9	8	7	9	4	5	7	6	
<b>4</b> -	Males	41	3	3	3	6	8	3	2	3	1	2	2	5	
	Temales	1		5	4	5	1	5	5	6	3	3	5	1	

TABLE VI.—Continued.—Deaths by Ages, by Sex, by Months.

AGES		YEAR					Mon	тив,	1882						
YEARS.	Sex.	YEAR, 1882.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
	(Total	93	5	8	8	6	5	6	11	10	7	6	12	7	-
B	Males	46	1	5	2	3	3	8	6	5	4	3	7	4	
	   Females	47	4	3	6	3	2	8	5	5	3	3	5	3	ŀ
	(Total	81	9	7	8	6	10	6	5	4	8	6	3	9	ļ
)	   Males	45	6	4	5	4	6	3	4	2	8	3	2	8	
	Females	36	   3	3	3	2	4	3	1	2	5	3	1	6	
	(Total	115	5	10	7	14	10	13	8	8	14	10	9	12	
0	Males	89	4	6	5	7	3	7	6	3	8	7	5	8	
	Females.	46	1	4	2	7	7	. 6	2		6	8	4	4	ļ
	Total	64	4	4	5	6	8	6	3	7	4	4	8	5	<b> </b>
51	Males	33	2	2	.4	3	3	4	1	2	4	1	5	2	ļ
	Females	31	2	2	1	8	5	2	2	5		8	8	8	ļ
	(Total	107	4	5	11	6	8	9	10	10	7	12	12	13	ļ.,
b2	Males	57	2	5	6	4	6	5	8	3	<b> </b> .	8	4	6	<b> </b>
	Females	50	2		5	2	2	4	2	7	7	4	8	7	<b> </b>
	(Total	90	3	9	8	8	8	8	7	9	5	9	8	8	<b> </b>
53	Males	51		6	7	5	5	3	4	5	3	4	4	5	<b> </b>
	Females	39	3	3	1	3	3	5	3	4	2	5	4	8	ļ
	Total	98	9	7	12	9	9	9	8	7	8	5	3	13	
54	Males	55	4	4	ø	7	4	6	8	4	4	8	1	6	ļ
	Females	43	5	3	3	2	5	8	5	3	4	2	2	6	<b> </b>
	Total	96	6	5	12	10	9	6	10	3	8	8	6	12	l
15	   Males	51	2	4	6	5	4	4	3	3	5	4	3	7	I
	Females.	45	4	1	6	5	5	2	7		8	4	3	5	]
	Total	111	4	6	13	6	11	6	12	11	11	6	11	14	ļ
56	Males	57	2	2	7	6	5	5	5	5	4	2	4	10	١
	Females.	54	2	4	6		6	1	7	6	7	4	7	4	ļ
	(Total	90	3	8	11	9	9	5	9	8	6	12	7	3	ļ
57	Males	52	3	4	4	6	7	3	8	4	4	7	2		ļ
	Females	88		4	7	3	2	2	1	4	2	5	5	3	ļ
	[Total	91	5	7	11	6	6	8	8	2	9	7	5	17	ļ
se	Males	58	4	5	9	4	2	4	2	1	8	4	4	11	ļ
	Females	33	1	2	2	2	4	4	6	1	1	8	1	6	ļ
•	[Total	82	5	4		10	7	8	8	6	5	5	7	8	_
<b>59</b> .	Males	45	8	1	5	6	2	5	5	2	4	3	5	4	<b> </b>
	Females.	37	2	8	4	4	5	3	3	4	1	2	2	4	<b> </b>
	Total	116	7	8	12	9	7	17	11	8	7	7	10	12	
80	Males	64	5	4	5	4	4	8	8	3	4	3	6	9	l
	Females	52	2	4	7	5	3	9	3	5	3	4	4	8	ı

TABLE VIII.—Exhibiting, by Sex, the Number of Children under One Year of Age Returned as having Died in Michigan during the Year 1882; distinguishing the Months in which they were Born; and whether Born in the Year of Death or in the Previous Year."

	E YEAR.	Total.	196	233	287	286	325	263	330	407	47.9	374	265	395			
	ALL AGED UNDER OVE YEAR	Sex.	122	120	166	169	181	151	145	928	272	210	139	921 174			
NTHR	EAR,	Total.	8	38	98	88	81	99	25	92	99	18	00				
<b>DRATHS BY MONTHS</b>	OR THUSE BORE IN PREVIOUS YEAR,	Ser.	333	43	38	25 25	74.0	18 28	នន	33	28	17	**				
THE	Os PR			-				.18	188								
DE	Вопя за Веля.	Total.	112	151	188	197	244	913	979	421	406	356	182	395			
	OF THOSE B	Ser.	11	888	106	113	134	117	123	232	241	199	135	921 174			
	OP YE							75	381								
each revi.	.100	X						718	sst								
Number Bern in each Month of Year Previ	Total	1		-	13	18	124	45	33	21	7.0	128	120	113			
Number Month o	No. of	Sex.		400	07	10	10	22.83	283	38	57 40	19	83	823			
8	=		4 00	400	23-4	01	5-10	∞-	00.04	22	#8	1010		ion.			
ONTH	9	5	10.01	01-0	10 00	1-15	w 00	400	÷ 00	10.53	10	203	000	<b>७</b> ल			
IN M	0	6	+0.04	0010	C+10	11 2	510	+01	000	-1-1	200	20	01-6	24			
AGE	0	ő		400	NO	401	9	00 40	901	101	임임	18	00 100	-10			
NUMBER OF CHILDREN WHO DIED AT EACH AGE IN MONTHS.	-	:	69 H	0100	98	00 00	100	· :	60.10	22	21 6	80	410	104			
ED AT	-	ó	1000	400	004	6.0	0010	68	30	118	18	22	0.4	1-4			
to Dr	u	;	P-10	99.00	88 90 00 54 00 03 118 65 17 17 18 00 00 00 00 00 14 14 14 17 18 18 18 18 18 18 18 18 18 18 18 18 18												
EN WI	-	•	∞ →	80 88 89 H4 F4 FF 85 85 F8 90 80 90 00 F0 04 H0 HI 85 40 80													
ILDRI		ò	400														
OF CH		4,	94	10:01	30	00 00	11	w co	20	23	813	118	212	811-			
CBER		:	44	100	99	ol o	138	168	62	18	178	18	22	27			
No	-	77.	41	78	81	613	82	80	88	100	53	989	81	118			
TONTIL	No. of	Sex.	175	131	140	181	159	118	164	123	130	751 E88	888	88			
IN IN EACH MONTH R OF DRATH.	Sav		Males	Males	Males	Males	Males	Males.	Males	Males	Males	Males	Males	Males.			
	9	0	Males	Males	Mal	Males	Males	Males	Mal	Males	Mal	Mal Fem	Mai	Fen			
NUMBER BOY	Total	Total.	285	820	315	340	304	270	286	27.8	923	210	181	100			
Now	-20	Les						75	188					7			
		Occurred.	January	Patring	Marchine	0.00	İ	1		- relies	outsider.	- sper-	350 vamber-	December.			

## DEATHS-INFANT MORTALITY.

7		Males.	1,419	786	166	93	100	700	520	28	28	813	22	0 4 0 4	91		11	111	1,830					-
1881	3,218	Total	8,249	1830	353	241	202	E	183	181	16	8	23	16	9					3,249				
18		Males		111		120	11	88	82	48	288	35	868	53	25	302					401			
st		Total	202	11	s	11	83	47	99	73	26	81	100	1	132		902	-				200		
Il aged under		Males.		1044	173	98	123	130	107	93	88	42	26	Inn									2,231 1,724	
One Year.		Total	3,955	1830	331	892	237	818	191	018	147	143	135	120 1	138									3,955

4 Excluding 2 males and 5 females, month of death unknown; and 48 deaths of persons of unknown sex, -50 in all.

TABLE VI.—Continued.—Deaths by Ages, by Sex, by Months.

AGES		YEAR,					Mon	THS,	1882	•					
YEARS.	SEX.	1882.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
1	Total	42	3	6	3	3	. 2	3	1	3	4	4	1	9	
65	Males	24	3	2		1	2	3		2	3	2	1	5	
l	Females	18		4	3	2			1	1	1	2		4	
(	Total	26	1		2	2	3	2	4	3	1	3	4	1	
86	Males	18			1		3	2	3	1	1	3	3	1	
{	Females	8	1		1	2			1	2			1		
ſ	Total	39	1	4	6	2	6	4	1	2	4	2	4	3	
87	Males	19	1	2	3	1	4	1	1		2	1	2	1	
į	Females	20		2	3	1	2	3		2	2	1	2	2	
ſ	Total	24	· 1	3	2	1	4	3	1		5	2	1	1	
88	Males	11		1	'1	1	4				2		1	1	
į	Females	13	1	2	1			3	1		3	2			
1	Total	23	. 2	,1	1	2	3	2	2	1	2	1	4	2	
89	Males	12	1	1	1	1	2	2	2		1			1	
	Females	11	1			1	1			1	1	1	4	1	
1	Total	19	1		1	2	5	1			3	3		3	
90	Males	9				2					2	2		3	
	Females.	10	1		1		5	1			1	1			
1	To <b>ta</b> l	9	1		2	1	1			2			1	1	
91	Males	2	<b></b>		۱,	1									
	Females.	7	1		1		1			2			1	1	
	Total	15	1		4		1		1		2	1		5	
92	Males	10	<u></u>		3		1		1		2	1		2	
	Females	5	1		1									3	
	(Total	1	ļ. <u></u> .	1			3			2		2	1	1	_
93	Males	1	l							2			1	1	_
	Females .	1		1			3					2			_
	(Total	14	3	1	1		1		2	1	1	1	1	2	
94	Males	ı	ı	1	1				2		1		1	2	
	Females.	1	2	ļ <u>-</u>	Ī		1			1		1			
	(Total	1		2	1	1	2		1		3	1		2	
95	Males	1		1	1	1	1		1					2	
	Females .			1			1		1		3	1	ļ		1.
	(Total	ì	1			1						1		2	Ü
96	Males	1				1								2	Ĭ.
	Females	1	1	1		100						1		100	
97	•		•								1		2		

TABLE VI.—CONTINUED.—Deaths by Ages, by Sex, by Months.

AGES		V					Mos	THS,	1889	ł.					
YEARS.	SEX.	YEAR, 1882.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
	Total	3			1			1					1		
98	Males	2						1					1		
	Females .	1			1										
9999	Females.	1	,					1							
100	.Males	2			1		1								
103	.Males	2			1					1					
104	.Females	1												1	
107	.Males	1		1											
108	.Males	1		1								****			
109	Males	1	1					*****							
115	.Females	1				1									
116	.Males	1						*****	1						
126	.Males	1										1			
	Total	268	19	11	11	18	35	19	21	19	22	24	18	25	26
Unknown.	Males	151	11	5	5	10	16	9	9	11	10	18	13	15	19
OHEROWH,	Females	114	8	6	6	8	18	10	11	8	11	6	5	10	7
	Unknown	3					1		1		1				

### INFANT MORTALITY.

More still-births were returned for the year 1882 than for any previous year since 1878. In 1882, the per cent of still-births to total deaths was 4.82, and the average for the nine years 1874-1882 was 4.90. The per cent of still-births to total births, in 1882, was 2.14. The subject of infant mortality may be studied also in Exhibits F and G, and in Tables IV., V., and VI., on preceding pages, and in Exhibits 3, 4, and 5, and Table VIII., following.

EXHIBIT 2.—The Relation of Still-births to all Deaths Returned as having occurred in Michigan during the Years 1877 to 1882, inclusive, corrected by means of the Returns of Births.

			TOTAL	DEATE	S AND	STILL-BI	RTHS.		
	1874	1875.	1876.	1877.	1878.	1879.	1890.	1881.	1882.
All Deaths	12,500	11,990	12,576	12,919	12,766	14,407	16,102	19,238	16,425
Number of Still-births.	464	629	646	720	793	749	738	691	792
Per Cent of Still-births to Total Deaths	3.71	5.25	5.14	5.57	6.21	5.20	4.58	8.59	4.82

TABLE VIII.—Exhibiting, by Sex, the Number of Children under One Year of Age Returned as having Died in Michigan during the Year

													_	_
	E YEAR.	Total	196	235	. 287	286	326	263	330	497	479	874	265	395
	ALL AGED UNDER ONE YEAR	Ser.	199	129	166	169	181	151	185	260	272	910 164	186	221
NTHB.	EAB,	Total.	35	#8	66	98	18	20	19	16	99	18	00	1
<b>DEATHS BY МОХТИВ.</b>	OF THOSE BORN IN PREVIOUS YEAR,	Sex.	33	23	33	25.83	45	34	88	30.27	35	#2	**	
VTHS	OF PR							.18	188					-
D.E.	Воня 1м Ввати.	Total.	112	151	28	197	244	213	672	121	406	356	287	395
	OF THOSE B	Ser.	71	88	106	113	134	117	156	180	241	100	155	921
	9 N							768	38I					
Previ	enr	A						.18	st					
Number Born in each Month of Year Previ. ous to Year of Death.	Total			+	13	138	22	45	63	72	97	128	120	119
Number Month ous to	No. of	Sex.		410	04	807	23	22	\$31	28	12.8	150	58	88
18.	=		410	401	01-4	101	1-10	804	00 04	22	120	1010	44	10
ONT	10.	5	10.01	01-#	10.00	1-4	900	400	→ ∞	10 23	60	901	100	9
IN M	ď		401	2010	1-10	11 2	910	401	0010		20	000	01-41	9
AGE	00	5	нн	400	100	401	99	23.44	203	130	22	118	00 00	*
EACH	-	-	D1 H	01 00	30	00.00	-100	9:	0010	111	 6.11	108	410	10.
ED AT		5	600	400	∞+	69	00 10	0.00	22.8	118	18	25	04	1-
10 DI	15	5	P-8	00.00	99	09	P-00	10-4	Пo	22	28	40	133	10
NUMBER OF CHILDREN WIIG DIED AT EACH AGE IN MONTHS.	4	=	∞+	010	000	00	H.	-4	-1-1	1633	13	1~00	99	10
HEDR	~	5	400	10 00	99	60	27	00	13.6	123	20	13		14
OF CE	6	1	94	10.01	91-	65 00	17	œ0	80	16	223	48	519	64
MBER	+		44	22	18	20	18	89	9 11	252	128	12.22	32	H
No	7		11	828	81	83	88	92	88	100	53.86	88	81	118
MONTH.	No. of	Sex.	175	198	149	181	150	152	164	156	130	127	88	118
NUMBER BORN IN EACH MONTH OF YEAR OF DEATH,	Sex.		Males	Males	Males	Males	Males	Males	Males	Males	Males	Males	Males	Males
BER BOR	Total.		285	329	315	340	304	270	286	278	223	210	181	868
Now	.10	X						78	188					
Months in	and Deaths	Occurred.	January	February	March	April	May	June	July	August	September	October	November	December

					3,955
				1,724	1
			902		
		401			
	3,219		1		
1,419					
III			200		1
II		401			1
10	9	553	132	829.	138
24	16	53	104	88	130
12	S	88	100	26	135
an I	62	38	81	77	143
88	16	28	20	889	147
52.5	137	48	73	118	310
83	135	83.2	20	107	161
100	171	88	47	130	218
288	202	122	25	125	237
93	241	19	17	159	838
156	323	44	00	173	331
786	1830			1044	1830
1,830	3,249		706		3,955
Females.	49 Total	Males	Total	Males	Total
	3,3		Ш		
108e	EI.	a in .18	ir. 18	ged under	e Year.
Born	Dea	Orth	Yes	All a	O

4 Excluding 2 males and 5 females, month of death unknown; and 48 deaths of pefsons of unknown sex,-50 in all.

TABLE VI.—Continued.—Deaths by Ages, by Sex, by Months.

AGES		YEAR.	l				Mon	THS	, 188	2.					
YEARS.	SEX.	1882.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Trak
	Total	136	7	9	12	13	10	12	16	8	5	19	10	15	
	Males	60	3	1	8	8	3	4	8	5		10	4	6	
į	Females.	76	4	8	4	5	7	8	8	3	5	9	6	9	
-	Total	140	11	7	11	11	10	18	12	12	10	16	15	7	
	Males	64	7	2	2	3	8	9	6	6	4	6	9	2	
	Females.	76	4	5	9	8	2	9	6	6	6	10	6	5	
1	Total	113	5	9	12	9	7	11	9	11	8	12	14	6	
	Males	59	1	1	6	7	2	6	5	8	3	9	6	5	
	Females.	54	4	8	6	2	5	5	4	3	5	3	8	1	
	Total	113	11	10	6	6	12	9	8	7	9	13	13	8	
	Males	50	5	4	3	4	5	3	3	6	4	4	7	2	-
	Females.	63	6	6	3	2	7	6	5	1	5	9	6	6	
	Total	98	4	11	9	8	8	9	9	7	6	8	9	10	
	Males	39	2	3	4	2	4	5	5	1	3	1	5	4	
	Females.	59	2	8	5	6	4	4	4	6	3	7	4	6	
!	Total	112	8	12	9	9	8	11	8	13	7	10	7	10	
	Males	40	3	6	3	5	4	2	2	1	3	3	4	4	
į	Females.	72	5	6	6	4	4	9	6	12	4	7	3	6	
!	Total	163	12	12	15	14	20	16	16	10	9	12	13	12	
	Males	80	7	7	4	5	11	11	9	2	4	8	6	5	
	Females.	83	5	5	11	.9	9	5	7	8	5	4	7	. 7	
-	Total	149	6	ษ	11	17	22	10	11	4	16	21	11	10	
	Males	56	4	4	4	7	10	2	4		5	6	3	6	
į	Females.	93	2	5	7	10	12	8	7	4	11	15	8	4	
!	Total	143	7	15	13	15	11	15	12	5	16	9	19	6	
	Males	68	3	9	5	10	6	7	4	2	9	3	8	2	
į	Females.	75	4	6	8	5	5	8	8	3	7	6	11	4	
1	Total	166	5	11	13	11	19	13	14	18	12	18	20	12	
	Males	88	2	7	9	5	7	8	7	8	6	8	15	6	
	Females.	77	8	4	4	6	12	5	7	9	6	10	5	6	••
į	Unknown	1	•••••	•••••		•••••				1					
!	Total	150	5	13	12	13	15	12	15	12	9	20	11	13	
	Males	77	2	7	6	3	8	7	6	8	5	13	. 5	7	
į	Females.	73	8	6	6	10	7	5	9	4	4	7	6	6	
!	Total	179	12	14	18	19	16	10	15	16	16	15	14	12	
	Males	94	9	8	8	6	8	6	9	8	9	9	5	7	
į	Females.	85	3	6	10	13	, 8	4	6	8	7	6	9	5	

#### BIRTH-MONTHS MOST FAVORABLE TO LIFE OF CHILD.

The subject of infant mortality is one of very great importance and demands serious attention. Many causes combine to produce the annual destruction of infant life, but they ought not to be an effectual barrier against determined efforts to diminish it. There is a wide field for labor in this connection, and

some grand results have already been accomplished. .

The method of finding the ratio of deaths under one year old to births is illustrated in Exhibit 3. It shows, by sex, the number of children born in each month of the year 1881, and the number of these that died before the age of one year. It will be observed that of the 34,719 births in 1881, 12.52 per cent of them died before reaching the age of one year; that is, about 13 in every hundred, or 125 in every thousand of the children born in Michigan in 1881 died before their first birthday. In a series of ten years, 1873-1882, the average ratio of registered births to deaths of children under one year of age, was 10.63, ranging from 9.41 in 1879, to 12.52 in 1882.

The subject of the comparative probability of life or death of children before reaching the age of one year, is one of considerable interest. The evidence of the years 1872-1882 tends to prove that the birth-months showing the greatest probability of death before the age of one year were February and April, and those showing the least were September and November. It has been the rule since the registration in this State, that the birth-months most favorable to

child life were in the latter months of the year.

Exhibit 4, on page 156, shows the distribution throughout the years 1881 and 1882 of the deaths of children born in 1881 who died before the age of one year. It may be studied as follows: 358 children were born in January, 1881, who died aged under one year, of which 122 died in January, the month of birth, 24 died in February, 14 died in March, and 12 died in April, etc. In a similar manner can be traced the months of deaths of children born in each month of the year 1881, who died under one year of age. Of the 4,346 children born in 1881, who died before reaching the age of one year, 1,780 died in the month of birth, 406 lived to the age of one month, 311 lived to the . age of two months, etc. From the first diagonal column it is seen that a very large proportion of the children who die under one year of age do so before they are one month old, being 40.96 per cent of the entire number. The last column in the exhibit shows what per cent of the children born in each month of the year 1881 died during the month of birth. The average for the year was 5.13, and the months of December and November show the highest and lowest per cents respectively.

TABLE VI.—CONTINUED.—Deaths by Ages, by Sex, by Months.

AGES		YEAR,					Mon	тив,	1882						
YEARS.	SEX.	1882.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
	[Total	150	14	18	14	11	19	12	11	11	9	19	9	12	
5	Males	77	7	7	7	7	5	7	6	4	5	11	6	5	
	Females.	73	7	11	7	4	5	5	5	7	4	8	3	7	<b> </b>
	Total	96	4	7	5	9	8	9	7	5	6	14	11	11	
6	Males	49	3	8	1	3	4	6	5	1	3	6	5	9	
	Females.	47	1	4	4	6	4	3	2	4	3	8	6	2	ļ
	Total	75	4	3	7	13	8	6	. 5	3	7	4	4	11	<b> </b>
7	Males	32	2		2	7	2	3	2	2	2	2	1	7	
	   Females _	43	2	3	5	6	6	3	3	1	5	2	3	4	<b> </b>
	Total	98	8	6	10	5	8	10	9	5	10	5	13	9	
8	Males	53	5	2	4	2	6	4	5	3	4	2	10	6	
	Females .	45	3	4	6	3	2	6	4	2	6	8	3	3	<b> </b>
	Total	87	6	6	11	5	6	8	9	4	10	5	10	7	
9	Males	41	2	5	5	2	3	3	4	3	4	2	5	3	ļ
	Females.	46	4	1	6	3	3	5	5	1	6	3	5	4	
	Total	125	6	12	5	16	12	10	6	7	14	10	13	12	1
0	Males	66	. 1	5	3	7	8	2	4	5	10	7	8	5	1
	Females	59	5	7	2	9	4	8	2	2	4	3	5	7	
	Total	73	7	7	10	5	7	8	6	7	4	1	5	6	
1	Males	31	3	4	6	2	1	4	5	2			2	2	
	Females	42	4	3	4	3	6	4	1	5	4	1	3	4	ļ
	Total	113	8	9	4	13	7	8	11	11	12	7	11	12	ļ
2	Males	50	2	3	1	11	2	3	5	8	4	3	5	3	
	Females	63	6	6	3	2	5	5	6	3	8	4	6	9	ļ.,
	Total	85	8	6	. 9	7	7	4	7	7	8	8	7	7	<b> </b>
3	Males	43	6	2	5	3	5	3	2	4	3	4	3	3	
	Females	42	2	4	4	4	2	1	5	3	5	4	4	4	
	Total	92	6	7	10	6	14	6	10	6	4	5	7	11	
4	Males	55	2	3	8	5	7	5	6	4	3	4	3	5	ļ
	Females	37	4	4	2	1	7	1	4	2	1	1	4	6	<b></b>
	Total	116	11	9	13	7	11	7	11	10	8	8	11	9	
5	Males	65	9	3	6	3	8	1	4	6	7	3	9	6	<b> </b>
	Females	51	2	6	7	4	3	6	7	4	1	5	2	3	
	Total	70	3	2	8	6	11	4	6	4	6	8	4	8	ļ
8	Males	45	3	2	3	4	6	. 2	3	2	4	5	3	8	<b> </b>
	Females	25	<b></b>		5	2	5	2	3	2	2	3	1		<b> </b>
	Total	84	3	8	7	11	9	8	7	9	4	5	7	6	<b> </b>
7	Males	41	3	3	3	6	8	3	2	3	1	2	2	5	<b> </b>
	Females	43		5	4	5	1	5	5	6	3	3	5	1	

# BELATIONS OF DEATHS OF CHILDREN TO BIRTHS.

The relation of decedents aged under one month to births may be seen in Exhibit 5. The per cent of such deaths to births for the year 1882 was 5.05, and for the year 1881 it was 5.28. The average per cent for ten years, 1873-1882, is 4.62 for total, 5.03 for males, and 3.99 for females. It is thus seen that the per cent of males is greater than of the females, or the total of both sexes.

EXHIBIT 5.—The Relation, by Months, by Total, and by Sex, of the Decedents Aged under One Month to the Births in Michigan during the Year ending December 31, 1882.

		YEAR.						K	Моитна, 1883.	88					
S	SEX, ETC., SPECIFIED.	1882.	Jan	Feb.	March.	April.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk
	Births	37,036	2,466	2,536	3,004	8,039	3,031	2,733	\$,100	3,521	3,444	3,379	3,215	8,477	7
Total	Total Deaths aged under one month.	1,870	113	134	152	145	353	25	93	86	148	139	751	8	•
	Per Cent of Deaths to Births	2.02	4.55	5.28	2.01	4.74	2.00	20.0	5.13	5.11	4.13	4.71	4.79	92.9	14,63
	Births	19,179	1,307	1,305	1,565	1,508	1,563	1,380	1,623	1,823	1,814	1,756	1,648	1,795	22
Males	Males   Deaths aged under one month.	1,045	12	22	8	88	88	88	88	90	88	356	18	118	-
	Per Cent of Deaths to Births	5.45	3.6	5.98	5.18	5, 19	88.	5.80	848	5.49	72.7	5.41	4.92	6.57	7.69
	Birthe	17,787	1,176	1,238	1,437	1,456	1,473	1,850	1,478	1,894	1,626	1,619	1,556	1,675	2
Females.	Females.   Deaths aged under one month.	<b>8</b> 2	7	쫣	88	61	19	22	8	86	23	8	8	911	•
	Per Cent of Deaths to Births	#.	3.49	4.33	4.80	4.19	33	7.98	87.7	84	3.28	3,88	4.43	6.57	19.50
-	Births	£	63	က	69	10	*	•	10	7	•	4	ı	1	•
Onknown	Onknown ( Deaths aged under one month.	*	-	••	69	-	*	-	•	69	*	R	7	7	69

· Still-births included.

## DEATHS OF CENTENARIANS.

According to the returns in 1882, eleven persons-nine males and two females-are said to have survived the age of one hundred years. The accuracy of the ages of these decedents may not be entirely trustworthy, but the facts concerning them are given in Table IX. as they were returned to us.

ABLE IX.—Deaths Returned as having occurred in Michigan during the Year 1883, of Persons Aged One hundred Years and Over, Exhibiting certain Details concerning them included in the Returns.

NAMES OF			Married,		4	AGE.			PLACE OF DEATH.	DEATH.	DATE OF DEATH, 1882.	ATH,	Санве
OF STERABLASIS,	Sex	Color.	or Widowed.	Birthplace.	Years.	Months.	Days. Days.	atton.	Town.	County.	Month.	Day.	of Death.
"indilienan.	Male	White.	Unknown.	Male White. Unknown. Canada	126	T	Laborer		Sault Ste.	Chippewa	Chippewa October	-	Old age.
-	Male	Indian.	Widower	Male Indian. Widower., Illinois	100	-	Laborer	r 8	paulding	Spaulding Menominee. March	March	n	Old age.
-	Male	White	Widower.	Canada	108	1	Unknown	Wn 8	helby	Shelby Oceana	February	15	Old age.
-	Male	White.	Single	Germany	103	i	Laborer		exington	Lexington Sanilac	March	18	Old age.
- () () ()	Male	White.	Widower. Scotland	Scotland	116	1	Farmer	-	Brockway St. Clair	-	July	19	Old age.
1 840	Male	White.	Widower.	Male White. Widower . Maryland	103	10	20 Farmer		Carmel	Eaton	August	10	Old nge.
P. British	Female	White.	Widow	Female., White, Widow New York	115	1		s z,dee	augatuck	Housekeep'r Saugatuck Allegan April	April	12	Old age.
Anderson.sections	Male Black.	Black.	Wldower.	Widower . Unknown	107	1		wn B	Unknown Berrien	Berrien	· February	75	Old age.
a James and a passes	Female. Black.	Black.	Widow	N. Carolina	104	-	House!	cep'r C	Housekeep'r Co. house	Cass	December	1	Old age.
ALL Klawbrth	Male	White.	Single	Unknown	100	1	Tinker	H	airfield	Tinker Fairfield Lenawee	May	10	10 Old age.
	Male	White.	Widower.	Male White. Widower . England	100	1	Farmer		lint	Farmer Flint Genesce January	January	4	4 Old age.
	1	1							-				

TABLE VI.—CONTINUED.—Deaths by Ages, by Sex, by Months.

AGES		YEAR,				:	Mon:	rhs,	1882.						
YEARS.	SEX.	1882.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk,
	Total	122	10	3	· 13	10	6	18′	9	11	6	8	10	23	
73	Males	70	6	3	7	5	6	8	5	5	5	3	3	14	
l	Females	52	4		6	5		5	4	6	1	5	7	9	
(	Total	105	5	8	6	9	12	8	. 8	6	5	14	6	17	
74	Males	61	3	5	5	5	7	2	5	4	1	10	4	10	
i	Females	44	2	3	1	4	5	6	4	2	4	4	2	7	
	Total	116	5	11	11	10	14	12	7	6	10	5	11	14	
75	Males	70	3	4	7	7	8	9	4	4	6	4	6	8	
	Females	46	2	7	4	3	6	3	3	2	4	1	5	6	
1	Total	117	4	5	10	14	11	7	9	12	11	14	9	11	
76	Males	66	1	3	5	7	6	6	7	7	7	5	5	7	
	Females	51	3.	2	5	7	5	1	2	5	4	9	4	4	
	Total	91	7	10	8	10	5	5	7	6	12	4	7	10	
π	Males	60	3	7	6	9	3	3	5	3	7	3	5	6	
	Females	81	4	3	2	1	2	2	2	3	5	1	2	4	
	Total	98	2	9	7	9	9	4	8	5	9	9	10	17	
78	Males	51	2	3	.4	5	3	1	5	4	5	5	3	11	-
1	Females	47		6	3	4	6	3	3	1	4	4	7	6	
	Total	79	5	5	7	8	11	2	8	2	8	3	7	13	
79	Males	48	3	3	5	8	9	1	5	1	8	2	2	6	
	Females	81	2	2	2	5	2	1	3	1		1	5	7	
	Total	81	4	5	5	4	7	13	4	7	6	5	9	9	
80	Males	42	3	2		2	4	7	2	4	2	3	4	7	
	Females.	. 39	1	8	5	2	3	6	2	3	4	2	5	2	
	(Total	71	6	5	6	5	8	7	1	6	-6	.5	10	5	
81	Males	46	4	3	5	2	3	5		4	5	5	7	2	1
	Females.	. 25	2	2	1	8	5	2	1	2	1		3	3	ļ
	Total	106	4	4	11	6	12	10	12	6	10	11	10	10	
82	Males	. 53	1	2	7	4	6	8	7	4	6	3	7	3	-
	Females.	. 58	3	2	4	2	6	7	5	2	4	8	3	7	
	(Total	. 59	3	2	7	8	5	2	5	6	4	6	8	3	
83	Males	. 34	2	2	1	4	4	1	4	4	3	5	3	1	
	Females.	. 25	1	ļ	6	4	1	1	1	2	1	1	5	2	
	[Total	- 65	8	10	6	4	8	5	8	4	4	7	3	8	
84	Males	35	1	4	4	1	2	2	3	2	2	5	2	7	
	Females.	1	2	6	2	3	6	3		2	2	2	1	1	l

## TOWNSHIPS IN WHICH NO DEATHS OCCURRED.

There were fifty-five townships in which it was reported that no deaths occurred in 1882. These townships represented a population of 8,317 in 1880. This is an unusually large number of townships reported as having no deaths during a year.

EXHIBIT I.—Counties and Townships in which it is Reported that no Deaths
Occurred in 1882.

	Townships HAVING	Po	PULATI	ox.		Townships Having	Po	PULATI	OH.
COUNTIES.	NO DEATHS IN 1882.	Total.	Males.	Fe- males.	COUNTIES.	NO DEATHS IN 1882.	Total.	Males.	Fe- males.
Total		8,317	5,083	3,234		Ætna			
Alcons	Cartis				Missaukee	Bloomfield	76	57	19
Antrim	Forest Home	201	109	92		Forest	50 76	29	21
Benzie	Lake	42	26	16		(Richland			38
	, Hudson	148	68	80	Montmor'cy	Montmorency	******		
Charlevoix.	Melrose	79	37	42	Muskegon	Cedar Creek	356	194	162
	(Frost	148	112	36	Newaygo .	Lincoln		1273	102
Clare	Greenwood	235	189	46	Liowaygo.	(Cumming	122	91	81
Crawford _	Frederick	171	119	52	Ogemaw	Edwards	306	210	96
	ßaldwin	205	183	112		(Atherton			~
	Bark River	<b> </b> -				Comins			
Delta	Bay De Noqueta					Elmer			
	Nahma	388	235	153	Oscoda	Greenwood			
	Winona	78	43	35		Long Lake		1	
G. Traverse	Fife Lake	974	560	414		Mentor	ł		
Huron	} Gore	374	184	190		( Hayes	101	50	51
Mulvil	White Rock	375	197	178	Otsego	Elmira	225	112	113
Isabella	S Denver	260	149	111		( Bismark	100	63	37
ABG DOTTO	Gilmore	261	144	117	Presque I.	Presque Isle	228	138	90
Kalkaska .	Oliver					Denton	210	162	48
	Center				Roscommon	   Gerrish	214	196	18
	Eden	92	49	43		Nester	234	228	6
Lake	Elk	156	123	33		(Argyle	341	188	153
	Glencoe	126	91	35	Sanilac	Lamotte	801	152	149
	Lake	90	57	33		(Greenwood	122	74	48
Leelanaw.	Cleveland	395	204	191	Wexford	Henderson	194	123	71
Midland	Greendale					South Branch			
	(Lincoln	173	99	74	j l				

<sup>·</sup> Organized since census was taken.

TABLE X.—Exhibiting, for the State and Counties, by Sex, the Number of Deaths Returned as having Occurred in Michigan during the Year 1882, and in each Month of the Year; also the Number of Deaths at each Period of Age.

£			_				-	Mox	MONTHS,	188					1					AGES	NI B		PERIODS	B OF	· / II	YEARS,	, 1882	of		- 1	П
AND COUNTIES.	SEX.	YEAR, 1882.	-Transat.	February.	Матећ.	April.	May.	Jape.	July.	ysnany	September	October,	дотетьет.	December.	Unknown.	Under 5.	2 to 10.	10 to 15.	T2 to 50°	.62 01 02	25 to 30.	20 00 22	32 to 40.	.64 of 04	45 to 50.	50 to 55.	60 to 65.	.07 03 60	.67 03 07		75 to 80.
	Total	16,425	978	1171	1372	1311	1480	126	1284	1453	3 1545	1498	3 1421	1570	0 78	6375	1178	657	665	817	615	5 518	909	88	4	174	170 587	7 588	635	_	501
	Males	8,713	524	596	715	685	262	1 681	1 683	3 776	827	780	760	0 835	5 50	3452	602	306	283	416	287	976	252	245	242	265 263	3341	1 352	367	292	10
State	Females.	7,664	453	571	654	624	683	181	1 596	8 673	714	100	3 656	727	7 26	2879	576	351	38	400	328	3 272	254	243	202	909 207	7 246	6 236	898	906	
	Unknown	48	-	*	60	64	10		01	49	-	**	00	10	00	44	1	1	1	_	1	1	1	1	Ť	1	-;	:	1	1	
	Total	0	1	1	- 1		- )	1		-	C4	- 01		-	1	*	1	1	- 1	1	- 1	:	-1	1	1	-	-	-:		1	
Alcona   Males	Males	7	1	1			- 1	1		-	_		1	-	-	21	1	i	i	1	1	1	1	1	÷	-	-		- 1	1	
	Females	9			1		-	1	1	-	_	-		-	:	Q.	1	1	-	1	1	1	- :	1	1	-	- ;	- 1	_	- 1	
_	Total	385	83	30	40	88	4	8	91 19	88	55	38	19		-	141	30	=	15	23	-	1 15	00	19	=	16	-	17 13	18	=	
Allegan	Males	186	17	11	17	8	20	15	10	-	17	18	34		90	70	22	10	10	10	1	6	9	9	03	10	7	93	6	10	
	Females	195	90	19	64	30	3		13 10	18	3 18	3 18	33	63	1	70	15	9	10	13	-	9	G4	53	00	9	44	12	6	9	
_	Unknown	-	- 1	-	. 1		1		-		- 1	1	1	-	1.		1	1	1	1	1	1		1		+	,	1	:	1	
	Total	87	00	90	6	7	10		00	9	21	-	9	6	7	61	9	60	O.	01	-	1	1	Q4	,	01	-	-	2	_	
Alpena	Males	47	4	7	4	0.2	0.5		00	61	_	10	01	1-	-	30	NO.	90	-	1		1	-4.	1		-	-	-	G1	- 1	
•	Femalcs	39	4	1	*	*	6.0	1	-	-	00	01	-	09	:	30	-	1	-	03	1	1	1	~	-	-	-	-			
<b>-</b>	Unknown	1	1	1	-	ķ	-	1	1		- 1	1	1	-	1	1	1	1	1	1	1	1	- 1	:	+	1	-	-	1	4	
	Total	78	00	93	00	Ġ1	2		9	2	00	7 13		9	10	42	=	00	00	61		Q1	,	1	69	-	-	-	_	_	
Antrim	Males	43	01	1	04	G.		80	46	10	20	20	9	00	:	33	9		01	-	i	O.F		. :	-	-!	-	1	1	-	
·	Females	75	н	03	1		G.		01	9	70	01	t-	00	1 00	16	10	10	-		1	1		-	-	+	-	-	-		
	Unknown		-1	1	1		-	1		-	- 1	!	1	11	:	1	1	1		1	i	1	•	1	1	-	-	1	!	1	

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							×	MONTHS,	118, 1	1892.					-				AGES	ES IN		PERIODS	S OF	YEARS,		1382				
GOUNTER.	Agx.	YEAR, 1992.	Jenseni's	Kepturik:	March.	Tirty	May.	June	July	'ysn8ny	September,	October.	November	Десетрег	Unknown.   Under 5.	20 10	10 to 15.	15 to 20.	20 to 25,	25 to 30.	30 to 35.	35 to 40.	40 to 45.	45 to 50.	20 to 22.	55 to 60.	.09 to 65.	.07 oz 50	70 40 75.	.Toyobna 08
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TABLE X.—Continued.—Deaths by Counties, by Sex, by Months, and by Age, 1882.

AGES IN PERIODS OF YEARS, 1882.	10 to 15.  10 to 25.  10 to 25.  10 to 25.  10 to 25.  10 to 25.  10 to 35.	21 4 4 11 11 11 11 11 11 11 11 11 11 11 1	11 2 1 1 1 2 1 1 1 1 1 3	10 2 4 1 3 1 1 1	56 9 2 8 8 7 14 8 9 8 9 11 10 9 9 6 15 4	21 7 2 1 1 4 5 4 2 3 8 6 7 6 6 4 5 2	34 2 7 7 8 9 4 7 5 6 5 3 8 3 2 10 2		45 9 8 8 4 4 1 1 1 1 1 3 1 1 1 2 2 12	20 6 1 1 2 1 1 1 7	25 3 3 2 2 1 1 2 1 1 2 2 5	102 19 14 15 25 11 8 17 18 10 11 16 17 19 22 11 15 3	57 7 5 6 14 6 8 6 8 8 5 8 9 6 15 7 8 2	45 12 9 9 11 5 5 11 5 7 6 8 8 6 7 4 7 1			1	15 2 2 1 2 4 1 1 1 2 14 4 1 2	S 2 2 1 1 1 1 1 1 2 1	
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TABLE X. -Continued. - Deaths by Counties, by Sex, by Months, and by Age, 1882.

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TABLE X.—Continued.—Deaths by Counties, by Sex, by Months, and by Age, 1882.

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TABLE X.-Continued.-Deaths by Counties, by Sex, by Months, and by Age, 1882.

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7	12 to 20.	1	00	4	14	9	00	1	11	233	20	1	10	7	-
	10 to 15.	0	10	9	17	6	90	1	68	38	85	1	-	01	01
	5 to 10.	10	99	1-	83	9	16	:	212	110	105	1	0	50	9
	Under 5.	19	30	31	87	54	550	-	101	255	514	91	88	00	15
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	November.	27	12	15	- 40	20	16	-	722	192	105		9	63	20
в	October	13	4	0	83	15	14	1	231	117	114	1	0	61	1-
-	September.	23	12	00	42	27	15	-	210	112	98	4010	7	00	-
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1	April.	18	10	100	355	11	18	-	170	00	80	-	10	00	91
	March.	10	-	12	23	22	12	****	202	144	111	1	12	00	7
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	SBX.	Total	Males	Females,	Total	Males	Femalos,	Unknown	Total	Males	Pennles.	Daknown	Total	Males	Females .
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### COLOR OF DECEDENTS IN MICHIGAN IN 1882.

Table XI. contains the number of deaths in Michigan in 1882, by sex and by color of decedents. The third column shows the proportion of the sexes in the different races. The excess of all colors is of males; the largest proportion of males is among the Black and Mulatto, and the least among the Indians. It is also seen by the last column that the death-rate is greatest among the Indians, and least among the white inhabitants. In 1882 over 97 per cent of all the decedents were white.

In Table XII. the color of decedents can be seen by counties.

TABLE XI.—Deaths Returned as having occurred in Michigan during the Year 1882, distinguishing the Color by Number and Proportion of each Sex; and, by Sex, the Per Cent of Decedents of each Color to Total of All Colors; the Per Cent of Inhabitants of each Color to Total of All Colors; also, the Per Cent of Decedents to Inhabitants.

COLOR.	Sex.	Popula- tion June I, 1880.	Number of Deaths Returned.	Per Cent of Deaths of each Sex to Total of Both Sexes.	Males to 100 Females.		each Color to Total of All Colors,	Death- rate—Per Cent of Deaths in 1882 to Popula- tion in 1880.
	Total	b1,632,737	16,425			100.00		1.01
	Males	859,810	8,713	58.20	113.69	100.00		1.01
All colors	Females	772,927	7,664	46.80		100.00		.99
	Unknown.		48			100.00		
1	Total	1,610,900	16,046			97.09	98 66	1.00
White	Males		8,509	53.15	113,45	97.66		
white	Females		7,500	46.85		97.86	*******	
J.	Unknown.		37			77.08		
	Total		182			1.11		
Black	Males		114	62.63	167.65	1.31		
-	Females		68	37.37		.89		
	Total		37			.23		
Mulatto	Males		16	43.24	76.19	.18		
	Females		21	56.76		.27		
	Total	6,733	138		*********	.84	.41	2.05
Indian	Males		70	50.72	102.94	.80		
	Females		68	49.28		.89	********	
	Total		22			.13		
	Males		4	36.36	57.14	.04		
Unknown	Females		7	63.64		.00		
	Unknown.		11			22.92		
Disch and Wo	Total	15,076	219			1.27	.93	1.45
Black and Mu-	Males		130	59.36	146.07	1.49		
3	Females		89	40.64		1.16		

<sup>·</sup> Population represented by returns of deaths, 1882.

b Includes 28 Asiatics.

TABLE XII.—Exhibiting, by Number and by Sex, for the State and Counties, the Color of all Persons Returned as having Died in Michigan during the Year ending December 31, 1882.

	ALL	COLOR	s,—1885	2.		WHIT	E.		Bi	LACK	- 3	LA	IU-		INI	IA	N.	Uz	NK.N	ov	V.N.
STATE AND COUNTIES.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Total.	Males.	Females,	Total.	Males,	Females.	Total.	Males.	Females.	Unknown.
State	16,425	8,713	7,664	48	16,046	8,509	7,500	37	182	114	68	37	16	21	138	70	68	22	4	7	1
Alcona	9	4	5		9	4	5														
Allegan	382	186	195	1	375	185	189	1				1	1		4		4	2		2	
Alpena	87	47	39	1	87	47	39	1	****											4	-
Antrim	78	43	34	1	78	43	34	1									-		-		
Baraga	41	23	16		31	17	14								10	6	4	-	-		
Barry	181	98	.63		180	97	83		1	1			-							-	-
Bay	503	278	225	-1	491	267	224		3	3	**				9	8	1	-	-		
Benzie	54	37	17		51	34	17		3	3								8			-
Berrien	333	182	145	6	323	177	140	6	6	4	2	2	1	1	2	**	2		-		
Branch	207	196	101		206	106	100										-	1	-	1	-
Calhoun	264	128	135	1	256	123	132	1	5	5		2		2	****		-	1		1	
Cass	163	87	76		139	79	60		10	3	7	7	2	5	5	2	3	2	1	1	
Charlevoix	94	42	51	1	93	41	51	1		****					1	1		-	4		-4
Cheboygan	78	42	36		73	39	34		2	2					3	1	2				
Chippewa	80	47	33		73	41	32								7	6	1				
Clare	41	20	20	1	41	20	20	1													
Olinton	191	91	99	1	190	91	99		****	****								1			1
Crawford	15	11	4		15	11	4														
Delta	51	26	25		51	26	25										-				
Eaton	202	89	112	1	201	89	111	1	1		1										
Emmet	95	41	54		50	21	29								45	20	25				
Genesee	341	175	166		333	172	161		7	2	5				1	1				-	
Gladwin	6	5	1		5	4	1		1	1			-						4-		
G'd Traverse.	44	21	23		44	21	23													-	
Gratiot	166	90	76		166	90	76													-	
Hillsdale	236	109	127		232	105	127		3	3		1	1								
Houghton	250	143	107		250	143	107							_							
Huron	150	90	60		150	90	60												-4		
Ingham	249	127	122		245	125	120		4	2	2								-		
Ionia	290	162	128		290	162	128														
dosco	55	33	22		55	33	22														
Asabella	135	65	70		129	63	66							_	6	2	4				

TABLE XII.—CONTINUED.—Deaths by Counties, by Color, and by Sex.

	ALL C	Colors	,—1882			WHITE	E.	-	Bi	ACK.		LA	lu-		INI	TAI	N.	Un	KN	OW	72
COUNTIES.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Total.	Males.	Females.	Total	Males.	Females,	Total.	Males.	Females.	Trabutan
Jackson	356	200	155	1	345	195	150	-	5	3	2	5	2	3				1		-	Ì
Kalamazoo	338	175	162	1	322	167	154	1	14	7	7	1		1	1	1					
Kalkaska	46	25	21		46	25	21														1.
Kent	809	434	374	1	796	427	369		11	6	5							2	1		ı
Keweenaw	101	62	39		101	62	39	-													
Lake	37	18	19		37	18	19											4			1
Lapeer	245	184	110	1	243	134	109		1		1							1			١
Leelanaw	39	26	13		39	26	13														
Lenawee	401	203	198		392	197	195		9	6	3										Į
Livingston	178	94	83	1	177	93	83	1	1	1							-				Į
Mackinac	18	9	9		13	8	5								5	1	4				Į,
Macomb	267	122	145		266	121	145					3	1								Į
Manistee	219	123	95	1	218	123	94	1							1		1				Į.
Manitou	11	8	3		11	8	3												-		1
Marquette	419	239	177	3	418	238	177	3	1	1											١.
Mason	80	38	41	1	76	35	41								3	3		1			ı
decosta	193	119	74		192	118	74		1	1							-				ŀ
Menominee	93	45	47	1	74	36	37	1							19	9	10				i
fidland	87	41	45	1	87	41	45	1				****									1
Missaukee	32	18	11	3	32	18	11	3													i
Monroe	302	152	150		301	151	150	-				1	1			2.		1			ı
Montealm	278	154	122	2	274	152	120	2	****			2	1	1		1		2	1	1	Ì,
Montmorency	2	2			2	2														*	I.
Muskegon	339	182	156	1	339	182	156	1													Į
Newaygo	131	65	66		131	65	66											l			l
Oakland	341	174	166	1	338	174	163	11	1		1	2		2							Į,
Oceana	137	65	71	1	132	62	69	1	1	1					4	2	2		-		ŀ
Ogemaw	32	17	15		32	17	15														ı
Ontonagon	36	21	15		35	20	15								1	1					1
Osceola	107	53	54		107	58	54										-				ļ
Oscoda	1	3	4		6	2	4		1	1							-	1			1
Otsego		13	4	1.	17	13	4														
Ottawa	1	205	158	4	359	201	158		3	3					1	1		4			
Presque Isle	1	20	18		37	20	17											1		1	
Roscommon		6	1	1	9	6										-					1
Saginaw					831	470	358	3	5	1	4	1	1	1.	1	5	4	2			1

TABLE XII.—CONTINUED.—Deaths by Counties, by Color, and by Sex.

	ALL	Colors	s.—188	2.		WHIT	в.		Bi	LACK			TTC		INI	IA	N.	U	NKS	TOV	rx.
COUNTIES.	Total.	Males,	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Total.	Males.	Females.	Unknown.
Sanilac	193	113	80		193	113	80														47
Schooleraft	39	19	20		39	19	20		4000					-				4-			
Shiawassee	160	83	76	1	160	83	76	1						-			-		-		
St. Clair	405	213	191	1	405	213	191	1	****				-							-	-
St. Joseph	252	126	126		247	123	124		5	3	2		-						-		
Tuscola	252	132	120		251	132	119		****						1		1				
Van Buren	204	102	102	!	202	100	102		2	2					****						
Washtenaw	351	195	155	1	337	184	152	1	12	9	3	1	1					1	1		
Wayne	2,454	1,294	1,158	2	2,381	1,250	1,129	2	63	40	23	10	4	6							
Wexford	84	46	38		84	46	38		****					**							

### NATIVITY OF DECEDENTS IN MICHIGAN.

An examination of Exhibit 6 will show the nativity of decedents in Michigan for each of the years 1874-1882, and the average for ten years ending with 1881. The proportional average of native-born decedents for ten years is about 80 per cent, the average of foreign-born decedents about 17 per cent, and the average of unknown nativity for the same time is about 3 per cent.

average of unknown nativity for the same time is about 3 per cent.

The term 'foreign-born' includes only those persons born in other countries, and not those born in the United States, although of direct foreign descent. It is scarcely necessary to repeat the observation that the native-born decedents contain a large element of strictly foreign people, and also that a very large proportion of the deaths of infants and children is included among the native-born.

EXHIBIT 6.—Nativity of Persons Returned as having Died in Michigan during each of the Years 1874–1882, inclusive, showing the Number and the Per Cent which the Native and the Foreign-born Decedents are of the Total of All Nativities, and the Average Number and Per Cent for the Tears ending with 1881.

R TEN END- WITH	Per Ct. of Total,	100.00	79.94
Av. for Ten Years end- ing with 1881.	Number.	14,013	2,411 399
Велтив, 1882.	Per CL of Total.	100.00	19:75 19:75
DKA 186	Number.	16,425	3,144
тив,	Per Ct. of Total.	100.00	80.06 17.71 2.23
DEATUS, 1881.	Zumber.	887°61	15,402 3,407 429
DEATUS, 1880.	Per Ct. of Total.	100.00	78.08 18.40 3.52
DKA 184	Number.	16,102	2,962
7118, 19.	Per Ct. of Total.	100.00	3.15 3.15
<b>Виат</b> ия 1879.	Number.	14,407	2,458
, in it	Per Ct. of Total.	100.00	79.77 17.52 2.71
Валтив, 1878.	Number.	12,766	10, 183 2,237 346
тив,	Per Ct. of Total,	100.00	79.77
<b>ДКАТИК</b> 1877.	Хитьет.	12,919	10,305 2,251 363
тив,	Per Ct. of Total.	100.00	80.69 16.52 2.79
<b>DEATHS,</b> 1876.	Xumber.	100.00 12,576	2,078 351
DEATHS, 1875.	Per Ct. of Total.		79.84 17.57 2.59
DKA 18	Number.	11,990	9,573 2,106 311
TB8,	Per Ct. of Total.	100.00	79.50 17.02 3.48
DEATHS, 1874.	Yumber.	12,500	9,937 2,128 435
NATIVITY	OF DECEDENTS.	All nativities	Native-born Foreign-born

TABLE XIII.—Exhibiting, by Number and by Sex, for the State and Counties, the Nativity of all Persons Returned as having Died in Michigan during the Year ending December 31, 1882.

	ALL 1	NATIVI	TIES, 1	882.		NATI	VE.		Fo	REIGN			UNKN	own.	
STATE AND COUNTIES.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown,	Total.	Males.	Females.	Total,	Males.	Females.	Unknown.
State	16,425	8,713	7,664	48	12,848	6,652	6,152	-44	3,144	1,823	1321	433	238	191	4
Alcona	9	4	5		6	2	4		3	2	1				
Allegan	382	186	195	1	323	158	164	1	50	24	26	9	4	5	
Alpena	87	47	39	1	79	42	36	1	7	4	3	i	1		
Antrim	78	43	34	1	62	-35	26	1	15	8	7	1		1	
Baraga	41	23	18		34	19	15		7	4	8				
Barry	181	98	83		165	88	77		15	9	6	1	1		
Bay	503	278	225		387	200	178		105	58	47	11	11		
Benzie	54	37	17	****	44	32	12		8	3	5	2	2		
Berrien	333	182	145	6	269	152	111	6	29	15	14	35	15	20	****
Branch	207	106	101		185	93	92		16	8	8	6	5	1	
Calhoun	264	128	135	1	225	108	116	1	26	12	14	13	8	74	-
Cass	163	87	76	***	147	79	68		6	3	3	10	5		
Charlevoix .	94	42	51	1	80	36	43	1	13	6	7	1		1	
Cheboygan	78	42	36		64	32	32		13	9	4	1	1		
Chippewa	80	47	33		56	33	23		19	13	6.	3	1	4	
Clare	41	20	20	1	35	15	19	1	3	2	1	3	3	_	****
Clinton	191	91	99	1	165	75	89	1	20	16	6	4		4	
Crawford	15	11	4		13	10	3		1	1		1		1	
Delta	51	23	25	****	35	17	18	****	10	4	6	.6	5		
Eaton	202	89	112	1	182	80	101	1	10	4	6	10	5	_	
Emmet	95	41	54		92	40	52	1 1 1 3 4 1 10 4 1 3 1	0						
Genesee	341	175	166		300	152	148		36	19	17	5	4	1	
Gladwin	-6	5			5	5		****	1		1				
Gutraverse	44	21	23		32	37	35	***	12	4	8				
Gratiot	166	90	76	7414	142	81			99	8	14	2	1	1	
Hillsdale	236	100	127		211	97		****	14	8	6	11	4	7	
Houghton	250	143	107	-	181	107	76	_	67	36	31			*****	
Huron	150	90	- 00	****	100	58	47		-44	31	22	1	1		
Ingham	240	127	122	****	224	330	330		22	13	5	3	2	1	
lonia	200	162	128						-	16	3	5	2		
I0800	22	2								7	- 0	2	2		
Isabella	225										7	4		4	
Jackson											20	0,	1	1	
													-		

TABLE XIII.—CONTINUED.—Deaths by Counties, Nativity, and Sex.

_	ALL 3	NATIVI	TIES, l	882.		NATI	VE.		Fo	REIGN			Unkno	own,	
COUNTIES.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Total.	Males.	Females.	Unknown.
Kalamazoo	338	175	162	1	279	145	133	1	57	29	28	2	1	1	
Kalkaska	46	25	21		40	21	19		4	3	1	2	1	1	
Keni	809	434	374	1	625	333	292		174	99	75	10	2	7	1
Keweenaw	101	62	39		61	83	28		39	28	11	1	1		
Lake	87	18	19		31	16	15		5	2	3	1		1	
La peer	245	134	110	1	199	110	88	1	44	23	21	2	1	1	
Leelanaw	39	26	13		30	21	9		9	5	4				
Lenawee	401	203	198		339	166	173		50	30	20	12	7	5	
Livingston .	. 178	94	83	1	149	77	71	1	27	16	11	2	1	1	
Mackinac	18	9	9		15	7	8		3	2	1				
Macomb	267	122	145		201	90	111		66	32	84				
Manistee	219	123	95	1	165	89	75	1	50	31	19	4	3	1	
Kanitou	11	8	3		8	5	3		3	3					
Marquette	419	239	177	3	255	125	127	3	151	106	45	13	8	5	
Mason	,80	38	41	1	67	27	39	1	11	10	1	2	1	1	
Mecosts	193	119	74	••••	162	97	65		30	21	9	1	1		
Menominee.	98	45	47	1	56	22	33	1	32	20	12	5	3	2	
Midland	87	41	45	1	68	29	39		8	5	3	11	7	3	1
Missaukee	32	18	11	8	22	10	9	3	8	7	1	2	1	1	
Monroe	302	152	150		233	115	118		59	31	28	10	6	4	
Monicalm	278	154	122	2	249	1 <b>3</b> 8	109	2	23	12	11	6	4	2	
M'tmorency	2	2			2	2						•••••		•	
Muskegon	339	182	156	1	261	141	119	1	67	34	33	11	7	4	
Memaygo	181	65	66		107	54	53		23	10	13	1	1		<b> </b>
Oakland	841	174	166	1	259	130	128	1	70	40	30	12	4	8	
Oceans	137	65	71	1	111	51	59	1	18	11	7	8	3	5	
Openaw	32	17	15		23	9	14		8	7	1	1	1	•	
Ontonagon	36	21	15		19	10	9		15	9	6	2	2		
Oscools	107	58	54		94	48	46		13	5	8			-:	
George	7	3	4		7	3	4								
Otacgo	17	18	4		11	8	3		2	2		4	3	1	
Ottown	867	205	158	i	269	145	120	4	90	55	35	8	5	3	j
and the late	26	20	18		22	10	12		16	10	6		ļ		
¥	9	6	i .		5	4	1		4	2	2				
	648	477				340	263	3	208	119	89	34	18	14	2
	'76	113	80		136	82	54		57	31	26		ļ		

	ALL 1	Nativi	TIES, l	882.		NATI	VE.		Fo	BEIGN			UNKNO	own.	-
COUNTIES.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Unknown.	Total.	Males.	Females.	Total.	Males.	Females.	Unknown.
Schoolcraft.	39	19	20		32	15	17		7	4	3				
Shiawasseo	160	83	76	1	132	65	66	1	2-2	15	7	6	3	3	! :
St. Clair	405	213	191	1	294	152	141	1	107	59	48	4	2	2	
St. Joseph	252	126	126		218	104	114		24	17	7	10	5	5	
Tuscola	252	132	120		191	102	89		58	28	30	3	2	1	! 
Van Buren	204	102	102		180	86	94		19	13	6	5	3	2	ļ
Washtenaw.	351	195	155	1	278	149	128	1	69	45	24	4	1	3	
Wayne	2,454	1,294	1,158	2	1,709	864	843	2	671	385	286	74	45	29	!
Wayford	94	46	90		99	25	21		1.9	10	٠,	١ ,	١.,		1

TABLE XIII.—CONTINUED.—Deaths by Counties, Nativity, and Sex.

### CAUSES OF DEATH, 1882.

Although exceptional phenomena are of value to the statistician as a means for general comparisons, he principally depends for his most important generalizations upon those phenomena that are of greater prominence as regards their frequency and effects. For this reason, in studying the causes of death, those which, in a given period, occasion the greatest loss of human life in a community or state, are the first he is induced seriously to consider. We are accustomed to look upon cholera as a disease especially peculiar to oriental countries; and the nearer we approach the southern boundaries of our own domain, we are lead to anticipate the ravages of yellow fever as most seriously to be apprehended.

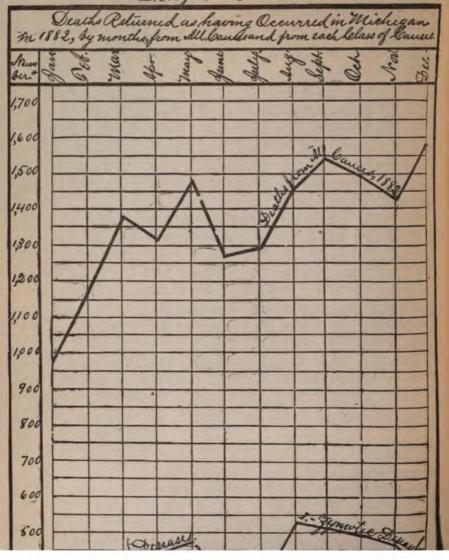
While the principal causes of death in Michigan are not absolutely peculiar to its own special area, there are some causes of death, more prominent than others that demand our most thoughtful consideration. These principal causes have been carefully classified and studied for a number of years.

This department of registration is one of direct importance to the people of Michigan, as by it we are enabled to judge of the condition of the public health. If epidemics have visited us, here is the certain evidence of their extent and severity. Its indications are positive. It clearly points out what diseases proved fatal, in what locality they prevailed the most, at what ages, at what seasons, and what were the surrounding circumstances. All these facts supply an array of evidence from which reliable conclusions can be deduced for the benefit of the public, and it is a matter of gratification to know that the great value of these statistics has long been recognized by all intelligent people.

The same classification of causes of deaths was used in 1882, as heretofore in this State, and an examination of Table XIV. will show the number and proportion of deaths from each class during the years 1878-1882, and the average for ten years ending with 1881. Although scarlatina and small-pox, in 1882, were more prevalent than usual, there was a great decrease in the



Diagram No. 2.



mortality from diphtheria, which in former years was so destructive to life. The result is, that the zymotic class of diseases shows a lower rate of mortality than for any year since 1878, and has fallen off 6.58 per cent from the preceding year. It is still, however, .33 per cent above the average for ten years.

The proportion of deaths from constitutional diseases was slightly increased, though still less than the average for ten years. Consumption and cancer

are, by far, the two most prominent and fatal diseases of this class.

The percentage of local diseases, those affecting the brain and nervous system, is greater than for any year since 1876 and greater than the average for ten years.

The mortality-rate from developmental diseases, those from old age and of infants, was also greater than usual, and is nearly two per cent greater than the average, while the rate of deaths by violence shows a marked decline when

compared with previous years.

Fifty-three males and 5 females lost their lives by railroad accidents. Forty-four males and 18 females committed suicide. One hundred and twenty-six males and 13 females were reported drowned. Eleven males and 11 females were reported poisoned. Fifty-seven persons were burned or scalded to death. Twelve from exposure; 13 from suffocation and strangulation; one female died from starvation, and 11 persons were murdered.

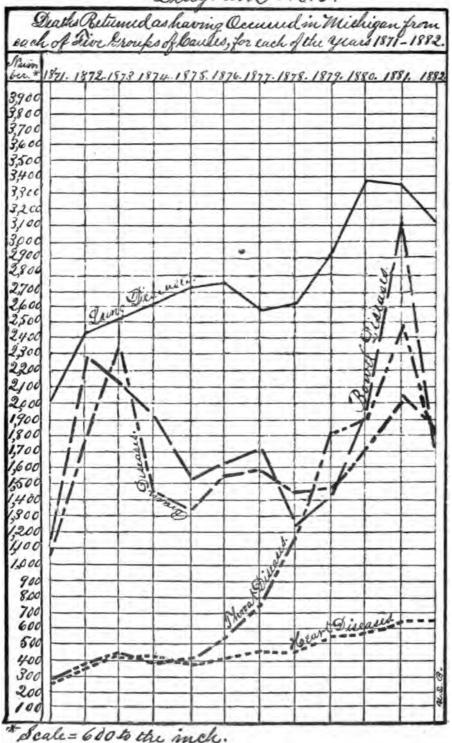
EXHIBIT 7.—By Months, the Number of Deaths Returned as having Occurred in Michigan from All Causes and from each Class of Causes during the Year 1882.

UAUSES OF DEATH,-	YEAR.				M	IONT	нв с	F D	BATI	I 188	2.			
CLASSES.	1882.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Unk.
All Causes	16,425	978	1171	1372	13)1	1480	1264	1284	1453	1545	1498	1421	1570	78
IZymotic Diseases	4,718	313	321	355	304	347	325	354	529	507	494	457	395	17
IIConstitutional Diseases	2,612	137	196	231	213	264	222	216	213	244	232	213	217	14
IIILocal Diseases	4,691	295	359	432	437	472	367	354	321	385	382	387	488	19
IV Developmental Diseases	2,067	111	143	178	164	189	148	157	180	172	174	177	260	14
VViolent Deaths	778	47	43	39	57	73	81	83	64	65	86	78	57	1
Unknown and Unclassified	1,559	75	109	137	136	135	121	120	146	172	130	109	153	16

umber of Deathr Returned aphaving occurred in Michigan from All Caurer, and from each Class of Per Cent of Deaths from each Class of Caures to Deaths from All Caurer, for each of the Years 1874 to it also the Average Number and Per Cent for the Years 1872–1881.

TH,-	1974.	ا نے	1975.	<u> </u>	1878.	ای	1877.	.	1678.	<u>z</u>	1879.	انو	1880	<u>.</u>	1881	<u>.</u>	*	25 25 26 26 27	AV. FOR YEARS 1NG WI 1881.	END.
	Number.	Per Ct. of Total,	Number.	Per Ct. of Total.	Хишрег.	Per Ct. of Total.	Уатрет.	Per Ct. of Total.	Хатьет.	Per Ct. of Total.	Хатрег.	Per Ct. of Total.	Хатрет.	Per Ct. of Total.	Митьег.	Per Ct. of Total.	Namber.	Per Ct. of Total.	Number.	Per Ct. of Total.
	12,300	100,00	11,990	100,00	12,576	100.00	12,019	100.00	12,766	100.00	14,407	100.00	16, 102	100.00	19,238	100.00	16,425	100.00	14,012	100.00
	3,260	£.	2,708	27.32	3,004	8.2	3,319	25.68	3, 121	24.45	4,177	28.90	4,825	78.0%	6,793	35.31	4,718	28.73	3,981	28.40
<b>Dis.</b> :	2,117	16.93	2,150	14.27	2,348	18.67	2,454	19.00	2,290	17.94	2,343	16.26	2,546	15.81	2,734	14.21	2,612	15.90	2,338	16.60
	8,A07	29.5E	3,565	20.73	3,647	29.00	3,506	27.14	3,481	27.27	3,918	27.20	4,402	27.90	5,011	\$8.0g	4,601	88.58 56.58	3,964	28.20
Die	1,256	10.05	1,353	28	1,458	11.50	1,527	11.82	1,825	14.29	1,802	12.51	1,861	11.56	2,033	10.57	2,067	12.58	1,534	10 95
	\$	5.25	97	5.30	747	2.94	\$	2.08	99	5.41	100	4.84	875	5.43	986	20.0	718	4.74	718	5.11
petites	1,514	12.11	1,438	11.99	1,282	10.19	1,490	11.39	1,358	10.64	1,470	10.30	1,503	9.33	1,701	8.8	1,359	9.49	1,479	10.58

• . . , . Diagram No. 3.



### DEATHS IN 1882, GROUPED BY PART OF BODY DISEASED.

The number and proportion of deaths from diseases of particular organs of the body may be seen in Exhibit 8. It shows the order of fatality of seven groups and their relative proportion to each other. Lung diseases, as usual, maintain the first place with a percentage of 19.01, which is 1.51 greater than for the preceding year. The average annual percentage of lung diseases, for the ten years 1873–1882, is 20.15. Diseases of the bowels, which held second place in 1881, dropped to the fourth in the order in 1882, exchanging places with diseases of the brain. With the other prominent causes of death the order, in regard to largest number, varies more or less from year to year. In 1882, 58.35 per cent of all the deaths returned as having occurred in Michigan were caused by the seven groups. The average for the four years, 1879–1882, is 60.05.

EXHIBIT 8.—Order of Succession of Seven Groups of Causes of Deaths Returned as Having occurred in Michigan for each of the Years 1879 to 1882, inclusive; Number of Deaths from each Group of Causes, and Per Cent of Deaths from each Group of Causes to Deaths from All Causes.

	1	875.		1	876.		1	877.		_ 1	878.	
Оприя.	Diseases of	Number.	Per Cent to All Causes.	Diseases of	Number.	Per Cent to All Causes.	Diseases of	Number.	Per Cent to All Causes.	Diseases of	Number.	Per Cent to All Causes.
	All can's.	11,990	100.00	All cau's.	12,576	100.00	All cau's.	12,919	100.00	All can's.	12,766	100.00
1	Lungs	2,720	22,69	Lungs	2,758	21.89	Lungs	2,584	20.00	Lungs	2,609	20.44
2	Bowels	1,521	12.69	Bowels	1,633	12.98	Bowels	1,702	13.17	Brain	1,440	11.28
3	Brain	1,338	11.16	Brain	1,549	12.31	Brain	1,592	12,32	Bowels	1,247	9,77
4	Throat	406	3.39	Throat	541	4.30	Throat	781	6.05	Throat	1,160	9.00
5	Heart	391	3.26	Heart	405	3.22	Heart	460	3,56	Heart	452	3,54
6							Liver	126	.98	Liver	143	1.12
1-5	5 groups.	6,376	53.19	5 groups.	6,881	54.72	6 groups.	7,245	56.08	6 groups.	7,051	55,28
	i ii	879.		1	880.		1	881.		1	882.	
Оврян.	Diseases of	Number.	Per Cent to All Causes.	Diseases of	Number.	Per Cent to All Causes.	Diseases of	Number.	Per Cent to All Causes.	Diseases of	Number.	Per Cent to All Causes.
	All can's.	14,407	100.00	All cau's	16,102	100.00	All can's.	19,238	100.00	All cau's.	16,425	100.00
1	Lungs	2,945	20.44	Lungs	33.87	21.03	Lungs	3,366	17,50	Lungs	3,123	19.61
2	Throat	1,803	12.51	Bowels	1,962	12.18	Bowels	3,102	16.12	Brain	1,856	11.30
3	Brain	1,466	10.18	Throat	1,899	11.79	Throat	2,493	12,96	Throat	1,814	11.04
4	Bowels	1,424	9.88	Brain	1,709	10.61	Brain	2,043	10,62	Bowels	1,724	10.50
5	Heart	549	3.81	Heart	570	3.54	Heart	646	3.36	Heart	649	3,95
6	Liver	121	.84	Kidneys	154	.96	Kidneys	241	1.25	Kidneys	273	1.66
7	Kidneys	113	.78	Liver	119	.74	Liver	143	.74	Liver	145	,88
17	7 groups.	8,421	58.45	7 groups.	9,800	60.86	7 groups.	12,034	62.55	7 groups.	9,584	58.35

EXHIBIT J.—Eleven Geographical Divisions of the State, formed for the purpose of fucilitating the study of Causes of Death, with a list of Counties included in each Division.

Upper Peninsular.	North. western.	Northern,	North-	Western.	Northern- Central.	Bay and Eastern.	Central.	South. western.	Southern Central.	South-
traga.	Benzie.	Antrim.	Alcona.	Kent.	Clare.	Bay.	Barry.	Allegan.	Branch.	Macomb.
pewa. A	G'd Traverse. Charlevoix.	Charlevoix.	Alpena.	Lake.	Gladwin.	Huron.	Clinton.	Berrien.	Calhoun.	Monroe.
4.	Leelanaw.	Cheboygan. Iosco. 8	Iosco. g	Mason. h	Isabella.	Lapoer.	Eaton.	Cass.	Hillsdale.	Oakland.
on.	Manistec.	Crawford.	Montmorency. Muskegon.	Muskegon.	Mecosta.	Saginaw.	Genesee.	Van Buren.	Jackson.	Wayne.
	Manitou.	Emmot.	Ogemaw.	Nowaygo.	Midland.	Sanilac.	Gratiot.	•	Kalamazoo.	
٠.	Missaukec.	Kalkaska.	Oscoda.	Oceana.	Roscommon. St. Clair.		Ingham.	į	Lenawec.	
	Wexford.	Otsego.	Presque Isle. Osceola.	Osceola.		Tuscola.	Ionia.		St. Joseph.	
				Ottawa.			Livingston.		Washtonaw.	
•							Montcalm.			
							Shiawassee.			
								41		

d Brovort, Garfield, Hendricks, and Holmes. . Cedarville and Ingaliston. ! Munising. c All townships. Cdeaths from the following townships:
d Superior. b Sack Bay. c All town
b Branch and Eden.

DEATHS, 1882, BY CLASSES OF CAUSES, BY DIVISIONS OF THE STATE.

Table XV. is intended to show the comparative healthfulness of the eleven geographical divisions of the State. The counties included in each division may be seen by reference to Exhibit J. For many reasons they furnish a more useful basis of comparison than the division by counties, and in many particulars these sections differ from each other, as in density of population, elevation of land, and influence of climate.

In viewing the mortality of different parts of the State, it is seen that the death-rate has diminished since last year in each division except the Upper Peninsular, Northern, and South-eastern, and, as there has been undoubtedly an increase in the number of inhabitants in each division, it would be still farther diminished if we could know the actual population for the year, but

it is necessary to use the census of 1880 as a basis for calculations.

In the State, the largest proportion of deaths was caused by zymotic diseases, and the smallest from violent deaths. In the first six divisions, as they appear in Table XV., and the Southeastern division, there was also the largest proportion of deaths from zymotic causes, while in the remaining divisions the largest proportion of mortality was from local diseases. The greatest per cent of deaths to population occurred in the Northern division, and the smallest in the Southern Central.

The particular diseases included in each of these classes, and the counties in which they occurred, may be seen in Table XVI.

TABLE XV.—Exhibiting for the State, and for each of the Eleven Geographical Divisions of the State, the Number of Deaths, the Per Cent of Deaths in 1882 to Population in 1880, and the Per Cent of Deaths for each Division to Total Deaths for the State during the Year 1882; also, the Per Cent of Deaths from each Class of Causes to Deaths from All Causes.

STATE AND	Popula- tion June 1, 1880,	DEA REPORT	ETED,	Per Ct. of All Deaths		USES TO	DEATHS	FROM EAC FROM AL	L CAUSES	
GEOGRAPHICAL DIVISIONS.	Represented by Deaths in 1882.	Num- ber,	Per Ct. of Total.	in 1882 to Pop- ulation in 1880.	Class I. Zymotic Diseases.	Class II. Consti- tutional Diseases.	Class III. Local Diseases,	Class IV. Developmental Diseases.	Class V. Violent Deaths.	Unk. and Un- classi- fied.
STATE	1,632,737	16,425	100.00	1.01	28.73	15,90	28.56	12.58	4.74	9.49
Upper Peninsular.	82,220	1,128	6.87	1.37	33.07	9.04	21.81	14.01	8.33	13.74
North-western	40,342	483	2.94	1,20	33.33	9,11	25.05	12,22	7.87	12.42
Northern	29,585	423	2.58	1.43	34.52	9, 22	21.99	8.98	4.25	21.04
North-eastern	24,061	230	1.40	.96	27.39	6.96	22.61	13.48	7.82	21.74
Western	182,438	2,007	12.22	1.10	34.03	14.35	26.41	11.21	4.53	9.47
Northern-Central	39,654	471	2.87	1.19	40.55	13.16	22.72	6.80	3.82	12,95
Bay and Eastern	245,679	2,596	15.80	1.06	27.54	13.98	29.40	15.06	5.12	8.90
Central	295,804	2,236	13.61	.76	27.77	17.44	31.13	10.73	4.79	8.14
South-western	127,416	1,082	6.59	,85	23.29	20.24	30, 22	12.39	4.99	8.87
Southern-Central	292,306	2,405	14.64	.82	20.50	20.46	35.34	12.22	4.33	7.15
South-eastern	273,232	3,364	20,48	1.23	30,32	17.75	26.93	13.82	3.06	8.12

TABLE XVI.—Continued.—Gauses of Death, Classified.

			.									70 C	TIE	COUNTIES,-1882.	걾									
CAUSES OF DEATH,—1882.	.stat8	Alcona,	Allegan.	Alpena	Antrim.	Baraga.	Barry.	Bay.	Berrien.	Branch.	Calbonn.	Cass.	Charlevolx,	Срероукан	Chippewa,	Clare.	Chinton.	Crawford.	Delta.	Eaton.	Emmet,	Genesee.	Gladwin.	.9ersvart .7.0
7. Whooping cough	98	$\iota$	*	G.		1	GR	H		01	00	-		-	10		0	1	1	-	CI.	1	1	1
Typhold Fever	470	1	Ħ	-	00	1	10	16	-	0	1-	+	10	00	7	9	9		-	-	-	-	-	-
8. Typhus Fever	10	1	1	1	1	1	;	+	1	-	-	- 1	1	1	i	1	1	1	1	-	-	4	4	1
Typho-malarial Fever	25	1	100	1	1	1	-	1	-	01	+	-	-	1	1	1	1		-	1	1	1	1	-
9. Erysipelas	162	1	10		1	1	01	4	F	10	9	01	1	-	1	1		-		28	-	1		-
10. Puerperal Fover	30	i	-	1	1	:	1	1	1	-		-	+	1	1	1	1	- {		-	1			
11. Carbuncle	4	1	1		1	i	1	+	1	- 1	- 1	+	-	-	1	_	1	:	1	1	1	1	1	-1
12, Influenza	9	1	1	1	1	1	- 1	;	+	1	- !	1	- 1	1	- 1		1	1		1	-	1	1	-
13. Dysentery	96	1	-	1	ψ¥.	1	91	0	1	7	01	-	-1	1		-		1	-	01	4		. i	- 1
14. Diarrhea	259	1	99	-	i	1	н	10	1	01	-	1	- 1	-	-	-	- 1	1	!				-	- 1
15. Cholera Infantum	428	r	0	1	01	1	00	30	104	10	93	10	9	10	_	6	-	63		*	1-	01	- 122	1
Cholora Morbus	37	1	1	1	İ	1	1	-	1	01	-	1	+	1	i	1	1	1	1	1	1	1	1	
to. Cholora	13	1	-	1	1	1	Ť	1	+	+	+	1	+	1	1	1	i	1	1	1	+	1	1	-
17. Ague	192		-		*	i	:	6	H	4	-	20	01	-	1	_	1	-	-	-		-	80	_
18. Remittent Fever	120	- A	99	-	1	7	1	1	1	-	1	-		1	_	29	-	-	1	-	- 01	-	91	-
19. Rhoumatism	106		01	1	İ	1	н	*	1	-	100	59	94	1	1	-1	1	1	1	-	00	-	10	1
20. Leprosy	-		1	1	1	1	i	1	1	1	1	1	+	1	1	1	1	1	1	1	1	+	1	1
IOrder Enthetic	1+		-	1	1	1	1	1	1	+	-1	1	- !	- 1	1		1	1	- 1	_	-			-!
1. Syphilis				1	i	i	1	1	1	1		1	-	+	1	1	1	1	1	1	-	-	-	1
2. Stricture of Urethra	-		1	1	1	Ť	$^{\dagger}$	-	+	1	1	1	-	1	-	1	1	1	1	+	1	1		1
( Stricture				-	-	-	i	-	Š	-	-	-	-	-	.!	4	-	-	1	_!	d	-	4	1

III1. Diseases of Nervous System	1,750	1	12	9	10	9	3	20	00	15	318	11		9	7	7	201	=	4	90	55	1	•
2. Diseases of Organs of Circulation .	643	1	12	-	Ø1	-	10		7	17	88	=	*	•	94	1	13	ψī	-	-	=	1	91
S. Diseases of Respiratory Organs	1,207	-	24	90	01	01	7	-	90	98	16	16	8	g).	- 1	01	00		-	-	60	_	9
4. Diseases of Digestive Organs :	715	1	=	12	-	н	8	10	31	=	90	6	1-	00	99	-	6	H		9	26	1	
5. Diseases of Urinary Organs	277	1	*	98	G)	-	1.	69	-	20	900	00	1	1	1	1	4		-	-	10	1	-
6. Diseases of Generative Organs	17	1	1	1	1	- 1	- 1	- 1	1	-	1	1	1	i	i	-	1		-	C1	1	1	
7. Diseases of Organs of Locomotion .	œ	-	-	1	1		-1	-	0	1	1	1	1	1	1	- 1	;		,		1	1	i
8. Diseases of Integumentary System	- 22	1	69	+	-	- 1	61		01	1	1	1	1	i	1	1	1		_	-	00	1	1
IV1, Developmental Diseases of Chil'n.	991	ł	30	9	10	-	8	9	B	6	90	00	10	63	9	1-	9	*	00	00	12	-	
2 Developmental Dis. of Women	930	1	78	-	-	:	70	01	10	-	00	01	G1	1	7	-	4	,	-	_	7	1	`~
3. Developmental Dis. of Old People.	647	1	18	5.0	н	- 1	2 15	10	18	9	15	10	01	01	-	-	10		-	23	25	1	61
4. Diseases of Nutrition	606	1	69	+	1	H	52	-	*	01	7	00	н	i	1		1		1	_	19	1	_
Vl. Accident or Negligence	984	-	13	4	-	01	-11	- 1	92	10	0	4	01	.0	90	-	.0	23	61		11		65
2. Battle		1	i	1	1		;	1	1	1	1	:	- 1	i	1	1	:				1	1	
3. Homicide	13	1	1	+	-	- 1	1	1	-1	1	ı	- 1	:	1	1	1	1		1			1	1
4. Suicide.	629	1	=	1	- 1	2	_	_	- 1	9	-	7	:	91	:	1	H		09	01	90	1	1
5. Execution.	-	1	Ť	1	1	!	· ;		1	1	)	- 1	1	i	:	:	:		1		1	1	
6. Violent deaths	368	1	90	-	8	1	10	10	*	03	н	н	;	T	н	-	4			_	25	1	
CLASS I.—ZYMOTIC	4,718	7	103	- 24	88	16	59 146	21	8	3	15	75	31	89	36	91	82	- 00	20 36	22	76	01	엄
IORDER 1. Missmatic	4,679	7	103	22	88	91	59 146	12	64	2	92	75	31	84	36	16	2.5	00	36	15	88	01	п
1. Small-pox	103	1	-	1	01				7	1	1.7	1	;	- 1		1	1			_		1	i
2. Measles	150	1	-	1	9	90	-	7	6.	01	60	99	1-	_ }	,	į.	1	-	-	,	65		-
3. Scarlatina	295	i	8	1	2		2	21	91	00	10	77	- (	80		;	-		-		4	1	
4. Diphtheria	1,416	1	55	9	1-	03	88	_	90	60	15	40	55	6	Ξ	139	13	-	17	9	31	1	· <b>+</b>
5. Quinsy	18	:	7	1	1	*	C	1	•	1	1		4	1	н	1	-1		4		7	1	
6. Cronp	349	1	H	- M			200	_	01	01	10	01	1	10	20	1	00	_	-	03	4	i	C1

TABLE XVI.—Continued.—Causes of Death, Classified.

7. Whooping cough.  8. Typhola Fever.  1. Typhola Fever.  1. Typhola Fever.  1. Typhola Fever.  1. Carbuncia.  13. Dysentery.  14. Diarrhoa.  15. Cholera Infantum.  16. Cholera Morbus.  17. Ague.  18. Remittent Fever.  19. Rheumatism.	Baraga.	Bay.	Berrien.	Branch.	Calhoun	Case.	evolx.	*uv2	79.86		-	7		_	1		.98.
86 4 9 9 111 11 11 11 11 11 11 11 11 11 11 1		- 8 - 1 - 1 1 1 .				I = I = I	Charl	Срерод	Cyippe	Clare.	Chaton.	Crawton	Delta.	Emmet,	Genesee.	Gladwin.	19721T .T.)
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13 192 130 106	-	1	-	29	1	i	1	1	1	-	1	i	1	1	į		
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20. Leprosy	1	1	1	1	1	1	-	1	1	1	i	1	1	1	1	1	1
[Order 2 Enthetic	1		1	- 1	_	- }	1	į	1	- 1	1	- 1	1			- 1	- 1
1. Syphilie		1	-	1	- 1	1	-	1	1	1	1	1	1	-	_	1	1
Stricture of Urethra		1	1	1	1	-	1	1	ì	ì	1	:	1	1	1		1

3, Hydrophobia	1		i	Ť	i	1	1		1	1	1	1	3		1	16	1	Ť	1	;		2	-	
4. Glanders	1		;	i	÷	+	1	+	1	17.	1	1	1	- )	1		1	1	1		. F.	-	1	
IORDER 3. Dietic	30		-	1	+	+	- !	-	-	21	- 1	1	1	•			-	Ť	1		-			
1. Privation		•	1	i	÷	+	:	+	1	- 1	- 1	1	1				1	İ	1	-		4		
Purpura	1	•	i	1	1	1	-	1	-	1	4	÷	- 1		1	1	ï	i	1	1	×.			
2 - Bachitis	95	•	i	i	1	-	1	1	1	1	J	3	1	9	1	1.	н	Ť	1	31	7	. 1		
Scurvy	:	14"	1	1	1	1	1	1	1	:	1	:	1		1	i.	1	i	1	1		,		
3. Delirium Tremens (Alcoholism)	4	140	i	1	1	1	1	1		:	1	1	:		1	- 11	1	1	1	1	X.			
4. Intemperance	13		i	i	1	1	1	1	1	:	-1	:	1	1.1			:	Ť	1	4.	H.	-		
5. Oplum Eating	1	A.	i	Ť	1	1	1	-	1	1	:	1	1	-	1	1	1	İ	1	3	4	-	- 0	
IOrder 4. Parasitic	13	*	:	i	+	1	1	- !	i	- 1	-	-14	4		. 1	- 1	1	1		:	- 1	-		
l. Thrush	9		1	1	1	1		1	1	- 1	-	1	1	110	1		1	i	4	1	71	-	_	
% Worms.	9		1	i	1	1	1	1	1	:	-	- 1	- 1	-	;	*	i	1	1	1			_	
3. Disease of Scalp	1		1	i	+	1	1	1	1	-	- 1	1	1	DE			1	İ	1		1.61	200		
CLASS II.—CONSTITUTIONAL	2,619	н	20	1		-	25	25	7 76	8	25	88	23	9	16	10	23	H	9	41	- 00	35	-	
IIORDER L Diathetic	920	H	17.	-	:		1-	14	1 27	21	38	21	1		59	H	15	÷	1	=	01	-		
1. Gout	1		1	1	:	1	1	1	1	-1	- 1	:	ı.fi	= 1.	:		i	1	1	-1				
Anæmis	O.F.	- 4	;	1	1	1	1	1	1	:	4		1	*	1		1	i	1	1	- 6	-		
Dropsy	317	*	60	:		1	4	6	. 15	9	10	*	1	161	O1		4	H	1	00	.01	10	-	
3. Cancer	301	-	10	-	1	1	00	20	1 15	-	=	90	1	· in	1		10	i	1	00	-	-		
4. Noma (Canker)	81	14.	60	1	1.	1	1	1	i	C1	04	1	1	1061	1	H	i	+	1	1	-	-		
5. Mortification	1		1	1	1	1	1	1	1	1	35	1	1	•		- 1	1	÷	1	1	161	-		
IIORDER 2. Tubercular	1,962	- 46	29	9	80	-	88	29	69 9	27	9	26	12	9	71	+	12	i	10	98	9	92	-	
1. Scrofula	30		+	1	137	-		-	-	- 1		1	1		1	5.0	1	1	-	- 1		-		
2. Consumption of Bowels	98	4:	1	1	1	-	04	-	7	90	-	:	4	-4	1		1	i	1	-	-		_	
	l																							

TABLE XVI.—Continued.—Causes of Death, Classified.

											Co	Z X	11	8, 18	882.										
CAUSES OF DEATH, 1882.	.atata	Азеопв.	Allegan.	Alpena.	Antrim.	Baraga.	Barry.	Bay.	Benzie.	Berrien.	Branch.	Calhoun,	Cass.	Charlevolx.	Срероувап.	Chippewa.	Clare.	Citnton.	Crawford.	Delta.	мотая	Emmet.	Genesee.	Gladwin,	Gr. Traverse.
8. Intussusception	-	1	I		1			Ì	1	1	1	1	1		1	i	-	1	1	1	1		-		- 1
9. Stricture of Intestines	6	1	1	1	1	i	H		i	i	i	T	1	i	1	1	-	- 1	1	1	1	H	1	1	- 1
10. Fistula	-	1	1	:	1	-1	Ì	1	1	i	- 1	-	1	1	1	1	1	1	1	1	1	- }	1	- 1	_;
11. Stomach Discases	90	1	1	1	- 1	H	-	*	1	89	. ~	63	12	-	1	-	- 1	-	-	-	-	1	00	1	- 1
12. Pancreas Discases	- 1	1	1	-	1	1	1	1	1	1	1	i	1	1	1	1	1	1	1	1	i	-	i	1	1
13. Hepatitis	9	1	1	-	1	1	н	1	Í	i	1	1	1	i	1	1	1	1	1	1	i	1	1	1	-
Biliary Calculus	4	1	1	1	i	-	1	1	1	1	1	i	1	1	1	1	1	1	1	1	1	-	i	1	:
14. { Jaundice	88	1	-	i	- 1		1	-	1	01	1	i	1	i	1	1	1	1	-	-	1		1		
15. Liver Disease	ш	1	00	1	i	1	1	4	7	01	50	-	1	1	1	-	1		1	1	7	- [	93		1
16. Spleen Disease	12	1	i	1	1		1	1	1	i	1	1	1	i	1	1	1	1		1	1	1	1	1	
17. Bowel Diseases, etc	99	1	65	C)	1	1	1	20	1	00	23	1	-	i	i	1	1	00	1	1	1	1	20	1	- 1
18. Mouth Disease	1	1	1	1	i	T	1	1	1	1	i	Ī	1	1	1	1	1	-	-	1	1	1	1	1	1
IIIORDER & Urinary Organs	77	- 1	4	01	01	1	Į+	C1	1	G	10	80	99	i	- 1		-	٠	- 1	-	9	-	10		
1. Nephritis	7	Ì	H	1	1	1	1	1	1	1	i	1	1	1	1	1	1	1	i	1	1	1	1	1	- 1
2. Ischuria	1	1	1	i	1	1	1	1	1	1	1	1	1	İ	1	1	1	1	1	1	-	1	1	1	
3. Bright's Disease of Kidneys	88	1	1	1	1	1	10	i	1	*	OI		-	ì	1		1	*	1	1	10	1	63	i	3
4. Diabetis	55	1	i	1	1	1	7	-	1	*	61	24	-	:	- 1	1	1	93	1	1	1	-	1	1	
5. Calculus (Gravel, otc.)	9	1	1	1	-	1	1	1	1	-	- ;	-	1	i	1	1	1	1	1	1	1	1	1	1	1
6. Oystitis	1-	1	1	1	1	-	1	1	1	1	1	1	1	i	-	1	1	1	1	1	1	1	1	1	_
7. Kldney Disense	13	-	63	-	-			-		-	-	10	-							-	-		-		_

15. Nouralgia	1	1	1	1	7	1	1	1		1	+	1	1	1	. 3.	1	*	. 6	1		+	79.7	•
16. Spine Discase	-	;	÷	1		1	1	16	1	:	+	-	1	1		;	•	•	1		1		•
17. Spine, Inflammation of	01	1	- 1	1	1	:	:		- 1	1	+	1	-	1	•	1					1	- 1	
18. Frightened	-	1	1	-	- 1	1	1	. 1		1	1	1	1	1		1				1	-	-	•
IIIORDER 2. Organs of Circulation	643	1	22	-		NO.	a	7	12	11	88	=	-	21	•	13	93	-	17	00	-		91
1, Pericarditis	68	1		+		-	H	-	93	99	00	91	_	1		-	H	-	9		-	- 1	•
2. Anourism	15	1	-	1		1	1	- 1	1	-	1	1	1	1	1.6	- 1			,	12	-		-
3 Heart Disease	929	1	=	-	- 63	*	90	4	=	77	77	6	-	1 2	•	12	-	п	=	00	91	•	_
4. Emboli	-	1	÷	+	-	!	1	- (		1	1	+	1	1	•	1		-	1	•	1	1	•
III.—ORDER 3. Respiratory Organs	1,207	1	75	90	G1	17	34	G1	31	30	16	16	9	61	- 61	90		7	14	t-	75	-	9
1. Epistaxis	1	- 1	÷	1		!	1	1	:	:	1	1	-	1					;		1	- ,	•
2. Laryngitis	10	- ;	÷	1	- 1	!	- 1		61	1	1	1	1	1	-	- 1	4	1.6	1	,			
3. Bronchitls	103	;	н	1		1	1	•	H	1	1	-	-		1	7	•		01		23		
4. Pleurisy	19	:	+	- 1	- 1	!			;	-	1	1	•		1	1	116	-	:	,	1	- (	_
5. Pneumonia	831	:	91	4	63	14	75	1	55	77	12	01	*		1	9	112	-	10	10	39	-	61
6. Asthms	88	1	10	1		-	00		:	Ø1	-	1	1	1	1	-	4		1	-	:		,
7. Lung Discase	190		-	90		91	9	e)	Į.	-	00	*	-	1	1	-	1.7	- i	61	-	-	-	8
8. Catarrh	10	1	:	1		1		-		1	+	1	1	1	d	1		-1-		,	-		
IIIORDER 4. Digestive Organs	715	- 1	=	10	-	9	36	80	139	11	- 00	6	t-	60		6	-	00	16	10	- 8		
1. Gastritis	25	:	91	1	-	H	4	2.0	1	-	+		-	+	1	-		- 1	01		-	-1.	
2. Entoritis	976	-1	69	01	-	П	10	п	10	60	63	20	01		1	7	-	69	4	70	-		
3. Peritonitis	25		;	1		1	1.		.:	1	-	1	-	1	1	1	- 10		11		10		
4. Ascitis	50	1	+	1		1	4	1	1	1	+	1	1	-	;	1	-		1		1		
5. Ulceration of Intestines	7	1	1	1	- 1	1	t		1	н	1	1	1	-	i	į	-	- 1	F		1	-	
6. Hernia	36	1	:	- 1	- 1	;		Y	93	1	63	:	1	1	1	i	100	-	- 1		1		
7. Obstruction of Bowels	-	:	1		- 6	1	4	Y	-	1	1	i	1	1	1	1	-	- 1	- 1	-	1	÷	

TABLE XVI.—Continued.—Causes of Death, Classified.

			1				1	1	1		3							-				-		
CAUSES OF DEATH, 1882.	ATATE	Alcona,	Allegan.	VIbens.	Antrim.	Baragu.	Barry.	Bay.	Benzie,	Berrien.	Branch.	Cass.		Cheboygan,	Chippewa.	Chare.	Clinton.		Crawford	Delta.	Eaton.	Genesoe,	Gladwin.	Gr. Traverse.
IVORDER 3. Dev. Discases of Old People	1	1	i	i	i	1	+	1	+	4	1	- 1	- 1		- 1	1	:	1			1		1	ruige
1. Old Age	249	1.81	18	40	-	1	03	15	-	18	9	12	10	01	O1	-	-	10	1	+	21	00	10	
IVORDER 4. Discasce of Nutrition	1		i	Ť	i	÷	Ť	+	1	1	1	+	- 1	1	- 1	1	-	- :	1	- 1	- 1	- 1	+	- (35)
L Atrophy and Debility	900	T - X T	91	Ť	1	н	00	E :	1	-	91	1	90	H :	+	1	+	-	1	100	-	н	20	÷
CLASS V.—VIOLENT DEATHS	778	п	81	10	64	91	60	83	*	14	61	п	9	63	90	-9	G9	=	61	-	10	61	18	
VORDER 1. Accident or Negligence	436	-	13	*	-		1	11	1	10	10	6	4	01	9	00	-	9	61	es.	-	-	=	
1. Fractures and Contusions	8		*	i	i	i	1	93	1	:	01	7	-	1	- 1	:	1	+	1	:	1		+	
% Wounds	8	•	-	1	i	i	1	-	1	1	;	1	-	-	-	1	1	+	;	- (	-	+	-	-
3. Burns and Scalds	22	×	-	1	i	1	1	00	1	00	1	1	+	1	1	1	+	1	1		29	-	-	e
4. Poison	36	1.4	-	i	i	i	1	63	1	04	:	1	+	1	1	1	:	1	1	- 1	-	1	61	
5. Drowning	140	18.	1	-	н	-	1	7	1	*	01	7	-	-	00	1	i	: :	1	-		H	H	2
6. Suffocation	21		H	1	1	1	1	-	-	н	-	:	-	1	1	1	-	-	1	,	-	:	+	100
7. Otherwise	H	1	10	1	T	-	1	-	1	1	1	1	+	1	1	-	1	4	89	;	1		01	
VOBDER 2. In Battle	1	100	i	1	1	1	÷	1	- 1	1		1	- ;	- 1	- 1	1	1	- :	- 1	- 1		- 1	+	34
VORDER 3. Homicido	1	,	i	1	1	-1	1	1	1	1	- 1	- 1	-1	1		1	+	1	1	:	- 1	- 1	+	
l. Murdor	21	-	i	Ť	Ť	i	i	+	1	i	+	1	-	1	1	1	1	-	1		-		-	х.
VОвряв 4. Suicido	63	- 14	-	i	1	i	1	-	-	1	10	H	:	- 1	61	+	1	. H	- 1	63	01	;	100	- 3
1. Wounds	90	=			=					-	-	-	-	_,	-	-	1	-		-	-	-	-	

2 Polson	<sub>21</sub>	****		1	-	***	1	-	-	-	1	7		April new	200	77	1	Ī		-	
3. Drowning	•	1		-1	1	i	!	-		100	1	1	- 1	1		1				-	
4. Hanging	20	-		1				1	7	Te	1	1	İ	1	-	10.	,	1		1	i
5. Otherwise and not Specified	96	1		1	1	1	1	1	at:	100	-	-	İ	i	1	1	21	1		1	!
9 VORDER 5. Execution	1	-		1	1	1	- !	1	- (		1	•	i	- 1	1	1	1.1	- 1		1	•
l. Hanging		1			1	1	1	1			1	-	İ	1	-	1		1		1	į
V()RDER 6. Violent Deaths not Included above	898	,00		- 3	-	99	10	**	61		-	-		-	-		-	4		n	
UNCLASSIFIED	101	-		1	1	21	1	1	•	-	1	- 1	100	1	1	1	01	-		1	:
1. Hoad Disease	7)	i		- 1	1	. )		-			i	-	-		-	- 1	-	1	:		i
2. Homorrhago	21	-		1	1	H	1	1	-0		į	-	H	1	1	1	91	:	1	1	i
3. Inflammation	58	1	1	- 1	-	-	i	1			1		Q1	1	1	1	4	-	:	1	;
4. Othorwise.	32	-	11	3	-	-1	1	1	-		-		1	-	-	!		- 1	1	1	:
Causes not Specified	455	54	2	6	12	16 3	31	2 17	11	17	6	7	16	1-	10	17	4	8	38	17	20

TABLE XVI.—Continued.—Causes of Death, Classified.

								Ì			Cor	HILK	M 08	188	91	l									
CAUSES OF DRATH, 1882.	Gratiot.	Hillsdale.	Honghton.	Huron.	Ingham	.ninoI	Toseo	Isabella.	Jackson.	Kalkaska.	Kent.	Жемеспаw.	Гяке.	Lapeer.	Leelanaw.	Гепамее.	Livingston,	Mackinse.	Macomb.	Manistee,	Manitou.	Marquette.	Mason.	Mecosta.	Menominee.
All Causes	166	536	820	120	249	990	-	58	826	9888	608 99	101	75	245	85	401	178	8	267	219	=	410	98	193	88
Specified Causes	153	98	514	119	252	270	1 9	113	320	819 4	41 764	100	30	955	000	370	187	1 2	816	197	1 6	364	12	E	12
Causes not Specified	13	10	36	25	33	30	6	81	57	61	2 45	10	-	96	9	31	11	91	38	81	01	28	9	16	8
CLASSES.					İ									1					İ		ĺ			1	
I.—Zymotic Disenses	88 2	41	8 6	Se 5	5 5	101	9 .	64 6	5 5	26 29	28 304	2 5	15	25 6	œ t	76	60 00	KG +	75	8	00 0	130	÷ °	101	8 "
III.—Local Discases	50		19	50	3	12	. 2	1 8								H	8 8	4 00	17	20		6	18	13	) F=
IVDevelopmental Discases	16	33	23	81	16	36	00	30	23	36	3 67	7 99	01	18	9	69	98	10	88	57	60	9	7	t-	133
VViolent Deaths	5	111	119	6	00	19	7	9	16	15	68	7	05	12	03	113	8	61	00	21	1	4	10	10	17
Unclassified		1	60	42	1	O1	1	1	- 4	91	-	61	1	1	1	1	i	1	00	1	-	53	-	Ì	1
ORDERS.								-		-	_														
I1. Miasmatic Diseases	89	41	70	39	21	101	12	69	84	22	28 304	5	17	20	90	76	36	10	23	2	01	130	75	104	8
2. Enthetic Diseases	1	1	Y	1	1	1	1	1	1	1	1	-	1	i	1	į	1	-	1	-	1	1	Ť	1	i
3. Dietic Diseases	1	1	- 1	1	1	1	-	1	1	1	1	1	1	-	-	1	1	1	-	-	1	-	1	1	. 1
4. Parasitic Diseases	1	1	-	į	-	1	+	T	60	+	+	-	1	-	-	1	-	1	1	1	-	i	1	1	1
II.—1. Diathetic Discases	п	15	1-	0.9	NO.	==	-	1	50	61	- 8		10	0	- 1	83	00	1	14	4		œ	+	9	01
2. Tubercular Diseases	20	49	17	10	5	82	01	51	35	48	11 119	_	1	53	-	68	30	-	3	10	24	98	100	=	00

Tri-It Steemen or Workens Systems	101	62	165	12/	152	31	37 1	15/ 51	11 05	0	96	ē	0	650	ē	2037	101	=	100	37	200	9	100	39	z
2. Dis. of Organs of Circulation	10	16	20	te					_			31	-	12	*	27	13	H	22	1		-	9		
3. Diseases of Respiratory Organs	36	13	27	22	17	12	3 10		30	61		13	-	a a	95	23	14	-	_	=	1 10	0	36	64	-
4. Discases of Digestive Organs.	30	10	101	1	6	123	-	12	14		31	20	н	91	н	9	=	- 1	0	90	2	01	0	-01	9
5. Diseases of Urlnary Organs	01	=	7	7	1-	99	1	я	7	-	=	99	1	90		23	00		1	-		1	2	1	:
6. Diseases of Generative Organs	- (	-	1	-	-	1	1		1	-:	-	2	1		4	1	1	,		-	-	1	i	1	_
7. Dis. of Organs of Locomotion.	1	- 1	-	1	1	1	1	- 1	I	- 1	- 1	b	1	-	À.	*	:		1	1	1	1	i	1	:
8. Dis. of Integumentary System	01	-	01	-	01	-	;	01	-	-1	91	- it	1	4	3.	1	95	1	00	-		-	-	1	:
IV 1. Developmental Dis. of Child'n	90	00	22	23	11	=	7	91	10	-	25	05	Q1	17	4	Ħ	11	61	11	61	1 33	10	01	90	•
2. Developmental Dis. of Women	1	OI	60	03	9	4	1	+	9	-	19	1	1	O.F	1	*	-	51	20	9	-	9	- 1	1	:
3. Develop'l Dis. of Old People	9	100	99	10	H	10	Q1	13	22	1	6	1	-1	=	1	65	13	н	77	01	-		4	*	13
4. Diseases of Nutrition	1	-1	7	G1	1	-	1	51	10	1	10	1	-1	02	- 6	01	C1		01	1	61	61	1	1	:
V1. Accident or Negligence	63	10	00	10	00	=======================================	4	06	90	-	27	Ċ1	0)	1	H	10	03	61	10	13		10	00	-	61
2. Battle	;	4	+	+	1	-		i	1	- 1	H		:	1		1	- 1	1	- 1	1	1	1	1	1	:
3. Homicide	1	-	1	1	=	:	:	-	-	- 3	Q3	1	1	1	1.0	1	1	- 10	-	1	+	1	1	1	:
4. Suicide	1	-	F	-	-		-	03	1	- 1	4		1	-		21	-		01	1	-	1	1	1	:
5. Execution	1	:	1	÷	1	1	1	1	1	1	ř	- (	1	1	. 7	1	- 1		:	+	1	1	1	- 1	;
6. Violent Deaths	a1	4	91	4	02	9	51	40	5	1	11	53	F	60	91	10	60	,	н	1	4	-	01	65	C1
CLASS I.—ZYMOTIC	89	41	3	88	73	104	12 49	87	76	- 33	304	35	15	8	30	92	17	10	72	98	3 130	- 6	104	38	91
IORDER 1. Miasmatic	8	4	29	83	27	101	15 49	88	122	8	304	16	14	13	œ	76	98	10	23	138	199	98	104	25	90
1. Small pox		1	1	Ť	1	0	1	1	Q1	.00	83	1	1	Ĭ.	- 6	;	3		1	+	*	61	1	21	:
2. Measles	-	;	F	1	-	1	1	01	1	-	7.	10	00	7	93	-	41	01	-	01	-	-	G4	1	:
3. Scarlatina	0.3	1	-	=	-	10	P	10	90	-	8	3	1	1.	н	10	01	- 0	02	9	- 19		.01	C4	:
4. Diphtheria	18		17	1-	8	75	93	31	83	2	28	-	4	19	1	11	4	1.01	98	91	2 10	71 0	69		ဗ
5. Quinsy	1)	-	1	-	1	1	-	1	1	rk.	-	1	1	1	- A	-	1	340		1	1	1	ć	1	:
6. Croup	4	Q1	9	.03	.01	01	-	10	61	-	76	-		-	1	G	-			4	17	7	00		

TABLE XVI.—CONTINUED.—Canke of Death, Classified.

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~≠ DEATH, 1882.	Gratiot.	Hillsdale,	Houghton	Haron.	.monta.	losco.	Isabella.	Jackson.	Kalamasoo,	Kalkaska.	Kent.	исмесивм.	Lake.	Lapeer	Leclanaw,	Lenawee,	Mackinge	Macomb.	991s[mal.	Manitou.	Marquette.	Mason.	Mecosta,	Menominee.
hooping-cough	60	61	;	-	1	61	_ i	G1	40		10		1	;	1	9	9		**		D4		1	1
Typhold Fever	4	9	10	-	12	1 6	4	00	63	98	22	1	÷	1-	01	00	10	02	4 10	1	22	-	51	Q4.
yphus Fevor	- [	1	1	1	1	1	1	=1	- 1	-	7	1	1	01		- 1		- 1	-	-	1	1	- 1	1
Typho-malarial Fover	1		1	-	1	-	1	I	į	P	-	i	1	- 1	1	1		- 1	_	1	- 1	1	- 2	1
9. Erysipelas	*	00	1	G1	#	9	63	7		- 1	10	1	ł	91	ž	9			-	-	00	28	.01	1
10. Puerperal Fever	i	-	1	1	1	-	1	1	-	*	F	1	п	3	1	-		;	-	1	į	1	- 1	1
11. Carbuncle	1	4	1	1	1	1	1	3	1	4	00	1	1	1		;		1		1	i	1	- 1	i
12. Influenza.	i	4	1	1	1	1	i	:	1	-1	:	1	-		1.3	1	- 1	t		1	1	1	7	1
13. Dysentory	61	1	90	:	1	1	1	1	1	H	9	di.	1	-	X	:	01		_		20	02	1	01
14. Diarrhoa	1	1	12	4	1	-	1	00	1	-	22	10	1	-	- 1	10	61		-		13	:	-	24
15. Cholera Infantum	91	10	-	-1	27	10	1	10	10	- 1	ह्य	61	1	1-	-	12	-	_	_	-	10	69	10	Ċ1
Cholora Morbus	1	-	1	-	1	-	1	64	I		01	-	1	1	. 1	1	-	_	01	1	-	1	-	1
Ib. Cholera	•	- 6	61	1	1	1	1	- (	1		1	1	i	1	-:	1	-1		_	i	52	1	1	1
17. Ague	1	61	10	-	10	0 1	10	4	6	-	30	1	**	90				į	_	1	1	1	-	i
18. Remittent Fever		10	9	-	00	91	1	σ¥	1	-	-	1	-	50		di	01	1	21	1	i	-	-	7
19. Rheumatism	10	-	.01	1	-	63	1	10	69		01	-	- 1	:	4	60	1	-	-	1	9	83	-01	21
20. Leprosy	-	1	1	1	1	į	1	- 1	-	-	1	1	1	+	1	+		1		÷	1	1	- 5	1
IORDER 2. Enthetic	. v.		1	1	:	1	1	:	- 1	-	1	1	1	4	,	- 1		1	_	I	1	1	:	
1. Syphilis.	1	4	1	-	1	1	1	:	1	-	1	-	1	1		1	/s.	1	_	1	1	1	:	1
. Chulchann of Trachus		_	-	-	_							-		_		-	-		_	1	-		:	1

4. Glanders					1		i	1	-	100	-	-	-		1	-	1	I	****	ž	****	****	i	1	1	÷
* Glabucra			Ī																							
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L-Order 3. Dietic			-		1				-	1111		1	-	-		112		100		-		-				
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l. Privation	i	į	:	1	1		1	1	1	!	1	1	1	1	1	1	1	: K.	1	1	1	1	į	1	1	
Purpura	-1	1	1	I			-	1	1	1	1	1	1	i	:	1	1	-147	-	1	i	-	i	1	1	
2. Rachills	-	1	1	:	1	_	3	1	1	1	1	1	1	1	1	1	1	*	1		1	1	i	1	1	
Scurvy	i	ì	1	1	- 1		+		!		-	1	i	j	- !	i	-1	•	1		1	1	i	i	- 1	-
3. Delirium Tremens (Alcohol'm)	1	1	13	I	2	1	1	1	- 5		1		1	1	•	-1	ŧ	-	-	1	1	1	i	1		-
4. Intemperance	:	1	- (	;		-	- 1	1	-		1	1	-	-	91	1	1	- '	1	- ;	1	-	- !	1	1	
5. Opium Eating	1	1	1	1	- 1	1	1	1	1	•	3	:	1		-2	F	1		1		1	-	i	1	1	
I()RDER 4. Parasitic	- 1	- 1	7	1	-	1	- 1	99	-!	- 1	1		1	- 1		1	-		- 1	1	7	- 1	i	- 1	-1	
1. Thrush	1	10	-	1		1	1	01	1	1	1	-	1	1	- 0	÷	-		1		1	:	:	1	1	÷
Worms	1	1	Ä	1	-	1	1	-	!		1	- 4	i	1	- ×		1		1	1	-	1	i	i	i	
3. Discuse of Scalp	1	1	- 1	:	- 1	+	!	1	1		1	1	1	1		14		- 1	i	1	1	-	- 1	1	-	- 1
CLASS IICONSTITUTIONAL	250	61	2	61	47	44	20	13	61	61	147	13	94	200	Į.	91	35	-	8	7	.01	35	- 0;	36		29
IIORDKR L Diathetic	=	16	1-	61	10	Ξ	-	8	27		30	5	-	6	i ir	8	00	- 1	7	+	1	90	-	70		01
1. Gout.	1	1	1	1	- 1	1	1	1	:		į	1	İ	1		- 1	1		1	1	1	1	1	1	1	-
Anæinia	1	G.	1	1	<del>-</del>	1	1	1	1	*	1	4	1	1		4	1				1	1	-:	i	-	_
Dropsy	9	Ξ	9	7	-	15	-	9	9		16	-	-	4	-	000	00	-	1-	*	1	0.3	- ;	-	1	9
3. Cancer	92	90	1	-	*	7	:	7	9	-	6	7	1	*		15	10	4	-	;	1	)G	77	_		.01
4. Noma (Canker)	64	1	1	1	-	1	1	i	;	- 7	00	1		-	A	1	1		1	:	i	1	1	69	1	
5. Mortification	1	ì	1	i	1	1	1	1	1	1	1	1		1		1	1		1	i	:	1	1	i	1	-
IIORDER 2. Tubercular	96	6	17	10	C1	22	21	18	GP GP	1	119	7	1	55	12	68	05	-	3	10	91	96	30	=		일
1. Scrofula	1	01	- 1	61	+	1		1	_ 1		4	Ø,		-	-	98	- 1	-	1	-1	1	1	1	1	-	_
2. Consumption of Bowels	1	-	1	1	,	-	1	1	-		Oil	1		i,		7	1	=	1	13	1	1	É	1	1	

TABLE XVI.—Continued.—Causes of Death, Classified.

							Ì					ş	MONTHS,	1881	2			ľ				l	.			
CAUSES OF DEATH,—1882.	Gratiot.	Hillsdale.	Houghton.	лотиН	Inghem.	.einol	losco.	Isabella.	Jackson.	Kalamazoo.	Kalkaska.	Kent.	Кеwеепаw.	Lake.	Lapeer.	Leelanaw.	Lenawee.	Tivingston.	Mackinac.	Macomb	Manistee.	Manitou.	Marquette.	Mason.	Mecosta	Menominee,
3. Phthisis (Consumpt'n of Lungs)	30	88	17	20	42	30	01	5	55	46	1	113	10	-	R	10	89	20		20	10	91	55	00	11	61
4. Hydrocephalus	1		1		-	- 1	1.00		1	61	1	1	1	1	i	1	:	- 1	-	-	-1		+	- 1	1	
5. Marasmus	1		1		1	1		1	1	1	1	1	1	1	н	-	1	1	-	1	1	1	24	1	1	1
CLASS IIILOCAL DISEASES	25	E	67	65	68	75	100	88	136	115	9	215	10	100	06	90	141	99	00	11	13	г	16	18	45	61
IIIORDER 1. Nervous System.	- 16	83	65	21	8	31	00	15	51	12	50	16	00	10	62	60	22	16		務	27		22	6	97	00
1. Cophalitis	OI .	1	1-	4	-	9	-	23	bò	19	1	30	29	1	21	:	50	1		10	10		20	91	60	-
2. Apoplexy	1	1	1	•	*			1	4	10	1	1	i	1	-	1	10	00		-	1		01	+	- 5	
3. Paralysis	51	13			10	9	-	1	10	88	1	19	i	-1	11	1	83	¢	_	9	:		c)	-	-	
4. Insanity	1	1	1	TE	i	1	- 4	J	1	1	1	C3	:	-	Ť	1	1		-	+	1	+	+	1	-	Y
5. Chorea	1	1	i		÷	1	1.6	1	1	1	1	1	i	1	T		-	-	- 1	1	1	+	÷	+	- 1	1
6. Kpilepsy	1	1	1	*	-	1	TAI	1	1	1-	Ţ	24	1	7	02	1	01	1		60	-	-	00	-	1	H
7. Totanus	1	1	1		i	1	E+		-	1	Ì	1	1	1	1	1	-4	1			- 1	1	÷	-	-1	-
8. Convulsions	-	-	6	*	5	4	-	G#	4	O1	1	15	10	ì	7	-	00	- (	_	93	35		11	25	91	F
Brain Discase	*		0	02	10	÷	Н	0	-	9	1	31	-	-	4	1	Π	9		=	10		70	1	-	
U. Dropsy of Brain	-	1	1	1	1	1	1.35	-	24	1	1	1	1	1	1	1	69	1	•	+	- ;	+	÷	1	-:	*
10. Spinal Fover	7.	04	1	110	00	9		63	1	- 1	01	11	1	r	i	1	1	1	_	+	1	1	1	-	н	7
11. Spotted Fover	1	1	1	TF:	1	1	х.	1	1	1	1	1	;	1	Ì	1	-	1	-	1	1	+	1	1	15	3
12. Meningitis	1	-	1		-	İ		1	1	1	1	1		-1	1	1	1	:	- 1	1	1	- ;	:	:	01	- 4
13. Meningitis, Gerebro-spinal	1	-	1			C)		1	1	1	1	1	i	1	1	1	1	1	- :	1	18	11	54	1	- 4	
14 Meningitis, Spinal	_		****			-		-	6	-	T	-		-		-	42		_	60		-	21	-	-	_

15. Neuralgia	1	:	ž	*	ī	-	-	7	7	-															
16. Spine Discase			- 1		- 3	-		-						)	1	1	1		1		¥.	ř.	+	7	į
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ii. Spine, innammation of	-	:	;	٠	1	-		1			1	1	i	i	•	1	-	. 1	÷	4	Ψ.	1	4	-	¥
18. Frightoned	1	1	1	- 6	1			- 1	*	1	4	i	1	1		;	1		1		*	1	1	Ť	1
III. ORDER 2. Organs of Circulation.	90	16	90	-	1-	22	99		8	-	81	01	_	15	-	85	133	T	15	7		00	-	9	69
	21	-			-	4				01	91		-	01	-	-	-		69	-		-	1.5		
2. Ancurism	69	-			:	-	- 1		-				_		-	1	;		- :	7		1		-	- 1
3. Heart Disease	4	14	20	r	9	6	10	69	11	6	9	ON		13	-	31	23	H	10	9	- 1	7	-	10	61
4. Emboli	-		- }	- 1	1	- 1	-		1		1	1	-	1		- ;	1		1	- 1		1	1	1	
IIIORDER 3. Respiratory Organs	36	35	21	13	11	15	90	10	31	30	25	13	-	22	et.	25	17	-	27	=	1	22	10	16	01
1. Epistaxis	1	. 1	- 4		1	;	-		- 1		- 1	1	- 1	-	X		- 1	•	O.		- 6	1		1	1
2. Laryngliis	-	01	1	-	1	:		-		-	-	1	-	1	- 1	1	1	-,	-	S.C.		. ;	1	+	7
3. Bronchitis	1	:	10	01	29	Ħ		-	- 1	53	69	10	-	1		01	-		1	21	- 7	139	,	1	1
4. Plourisy	i	:			-	H	110			-	_	1	- 1	1		29	. )	1.0	-	1	1	:	•	1	1
5. Pneumonia	10	10	10	30	27	=	21	-	23	13	5 40	9		20	69	139	13	-	1+	6	т	23	**	=	21
6. Asthma	1	1	- 1	-	1	1			-		1	1	1	1		-	1	,	CS	1				-	-
7. Lung Discase	10	170	61	н	43	G)		99	2	.01	10	01	1	0.0	1	1	4		1	1			-	*	61
8. Catarrh	1	;	1	1	1	1	- 4		-	-1		1	1	1	*	-	1	,	1	1	- 4			1	1
IIIORDER 4. Digestive Organs	20	10	a	4	6	13	**		10	12	150	90		16		16	11	- 1	10	00		10	69	10	9
1. Gastritis		-	-	1	1	65	-		-	7	01		i	1		01	1	1.)	:	1	- 1		÷	i	21
2. Entoritis	9	+	15	- 1	*	Н	-	-	-	*	0	**	1	*		9	9	0040	20	10	!	90	-	•	-
3. Peritonitis	1	1	1	2	-	1	-			1	1	-	1	1		:	ł		-	4	1		÷	Ť	1
J. Ascites	1	i	:	•		1		091	1	- 1	-	1	1	1		1	1	1		Y	*		- i	i	1
5. Ulceration of Intestines	1	3			1	1	-	+		1	- 3	1	1	1		1	1			- *			÷	i	:
6. Hornia	-	1		1		Q.			-	-1			1	-		1	1	. 1		1	1		1	1	ž
7. Obstruction of Bowels	I	1			1	1			1		1	1	1	1		1	1	1		1	2		+	1	3
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TABLE XVI.—Continued.—Causes of Death, Classified.

			1	1	1	1	1	1	1	1		Con	COUNTIES,-1882	- 83	28		1	1	1	1	1	1	1	1		
CAUSES OF DEATH,—1882.	Gratiot.	-9InbalilH	Houghton.	натоп.	Ingham.	tonia	losco.	Isabella.	Jackson,	Kalamanoo.	Kalkaska.	Kent.	Keweensw.	Lake,	Lapter.	Leelanaw.	Lenawee.	Livingston.	Mackinac.	Macomb.	Manistee.	Manitou.	Marquette.	Mason.	Mecosta.	Menominee,
8. Intuseusception		1			1	i	1	i	1	1	1	1	1	1	1	1	1	1	1		1	1	1		-1	1
9. Stricture of Intestinos	1	1		1	1	1	1	i	i	;	-	+	+	1	=	+	+	:	+	1	+	1	1	1	1	i
10. Fistula	- 1	1	1	1	-	1	1	1	1	1	:	1	1	+	1	;	- 1	1	- :	1	1	1	1	1	1	1
11. Stomach Diseases	-	00	00	-	1	01	- 1	1	9	90	1	+	1	H	-	1	H	100	1	#	1	1	Ģt.	1	-	1
12. Pancreas Diseases	:	1	1	1	1	İ	1	1	1	1		1	1	1	-	+	-	- 1	+	1	1	1	1	1	1	1
13. Hepatitis		-	-	;	-	-	i	i	:	1	1	1	;	1	1	1	-	4	1	1	1	1	1	1	1	1
14. Billary Calculus		1 "	1 1	11	1 01	11	1 -	İI	1 01	11	11	1 -	1 1	$\dagger$	1 -	1 1	1 1	++	1 1	1 1	1 1	11	11	11	11	11
15. Liver Disease	1	4	:	1	01	*	Ť	i	93	-	1	10	00	1	10	1	4	61	:	-	1		~	1	01	1
16. Spleen Disease	1	1	1	1	1	Ì	i	i	1 '		1	-	+	+	1	+	:	1	-	-	+	1	i.	1	1	1
17. Bowel Diseases, etc	1 1	1 1	1 1	11	1 1	ii	11	11	- 1	- 1	1 1	9 1	1 1	T	7 1	- :	0 ;		; ;	1 1	1 1	1 1	7	7 1	- :	-
IIIORDER 5. Urinary Organs	94	=	-	1	t-	00	i	-	130	4	- 1	=	00	:	90	- 1	22	00	1	-	-	1	H	- 1	10	1
1. Nophritis		i	1	1	-	i	1	i	1	÷	-	+	+	+	+	+	1	+	+	-	-		÷	i	1	1
3. Bright's Disease of Kidneys		9		1	*	-	İ		=	60	1 )	. 00			-	1	90	-	1		-	1	7	1	60	
4. Diabetes	-	÷,	1	1	Q1	-	1	1	21	1	1	:	+	-	00		-	1	1	1	-:	1	1	i	-	1
5. Calculus (Gravel, etc.)	1	-	i	1	1	Ť	1	÷	1	+	+	:	+	÷	+	+	-	-	1	+		1	1	i	1	1
6. Cystitis	1	-	1	İ	1	:	1	1	1	1	:	-	1	1	1	1	+	1	1	1	:	1	1	1	E	1
7. Kidney Disease		90	-		-	1	-	-;	9	-	-:	1	-	-		-,	-	_!	-,	1	-	-	-		-	

IIIORDER 6. Generative Organs.	15	7	1	15	-	11	-		1			-		-												
Ovarian Disease		1					_	-			1	,	I	ì		:	-	-	1	1	ï	1	-		T.	7
1.	_	1	!		!	!	-	1	1		1	1	1	1	1	1	1	÷	ï	ï	1	2	-		2	1
(Ovarian Tumor	-	-	1	1	1	1	1	1	1		. 6	1	1	1	1	1	1	4		ï	1	1	-	- 1		1.
2. Disease of Uterus		ì	- 5	1	_	1		1	1		*	1	1	- 1	1	3	-	1	1	1	1	1	-		-	1
3. Hydrocele	,	1	_ i	- 1	1	1		1	1			1	1		1		1	1	:	;	1	1	1			1
IIIORDER 7. Organs of Locomotion	- 1	1	177	-	1	1	1	1	1		,	1	1	- 1	-		-	1	:	1	1	1		- 1		
1. Arthritis		. !	1	- 1	1	1	- 4-	1	-			;	1	:	I		1	1	;	1	1	1				1
2. Joint Discases		- 1	-	1	1	1			1	1		1	1	- 3	+		-	1	4	1	- (	- 1	-	,	- 1	-
IIIORDER & Integumentary System.	0.1	-	31	- 1	O1	1			01			Q3	1	4	*	- *	;	00	7	00	1		-	-	-	1
l. Phlegmon		1	110	1	1	1		,	1	7	-	1	1	- 1	02		1	-1	ï	H	-1	-	-		н	
2. Ulcers		:		- 1	•	1			1	9		-	1		1	•	:	1	- 1	1	п	-!		1	1.0	
3. Skin Disease	93	-	-	- 1	Ġź	1	•	. *	1		14	:	1	- 4	-	- 30	:	00	1	91	- 1	-	-	-	,	
CLASS IV DEVELOPMENTAL DIS	92	25	66	81	55	8	90	90	35	36	00	29	31	01	22	9	49	30	10	88	72	50	99	-	1-	œ
IV ORDER 1. Dev. Dis. of Children.	90	00	22	21	17	п	1	12	36	10	-	13	30	01	17	4	11	=	01	17	9	-	22	10	61	8
1. Still born	90	9	92	=	12	10	9	0.0	90	6	-	91	15	21	14	4	97	6	1	14	15	6	98	12	01	<b>61</b>
Infantile		4	61	1	1	1		-	00		٠.	*	1		-		1	1	04	1	1	1	-	-		-
Premature Birth	Ċ	01	1	1	1	1			1	1	•	-	-		-		÷	1	- 1	1	- 1		00			-
3. Cyanosis		1	1		1	i		1	:	15	-	1	1	- 1		•	- 1	1		1	1	i				
4. Spina Bifida	1	- 1	:	1	;	-			!	· t	7	- 1		Ť	i	6.	1	1	- 1	1	÷	1	-	-		
5. Other Malformations	-6	+	ľ		- ;	1	- 6	-	00	1		:	-	1	1		1		1	1	1	1	- :	-	-	
6. Teething	7	1	1	-	1	1		- 1	:		-	01	Ť	i	1		-	01	T	C)	+		-			100
7. Injury at Birth					1	1	,	-	:	×	-	1	i	i	1					1	1	1			-	
IV ORDER 2. Dev. Dis. of Women	-		90	00	9	7		-	4	9	-	10	i	1	40	-	.4	4	21	10	9	-	_	÷	-	H
, ( Dysmenorrhea	,		- 5	. v.	1	1	. 20		1	1	44.0	1	i	i		100		- 1	3	1	1	1		-		
Turn of Life	9.			,	1	1		-	İ	T.	,	1	1	1	1			- F	- ) - )	E	1	1	i		-	
Child-birth	-	QR	10	24	9	6.0		-	7	9	-	12	i	1	24	н	20	4	01	7	. 9	10	_		_	
2. Abortion			1	-	1	1			T.	1		1	İ	i	1	-47	-	1	1	-	. 4	-				
Uterine Hemorrhage							_:[	-	<b>→</b>			=	-	-1	-	-	-	-	=:	-:	-	_	_!		=	~

TABLE XVI.—Continued.—Causes of Death, Classified.

		ľ																						
CAUSES OF DEATH,—1882.	dratiot,	Hillsdale,	Houghton.	Ingham.	,alnoI	losco.	Jenbella.	Jackson,	Kalamazoo,	Kalkaska.	Kent.	Lake.	Lapeer.	Leelanaw.	Lenawee.	Flaingston.	Mackinae.	Macomb.	Manistee.	Manitou.	Marquette.	Mecosta.	Menominee	Midland.
IVORDER 3. Dev. Dis. of Old People.	- 1	1		1	- 1	1	1	1	1	:	1		- 1	-	TR	- 1				1		:		- 2
1. Old Ago	10	S	PQ .	11 9	01 10	1	21.0	13	12	1	27		-	=	88	13	T.	77	.09	1		1	+	+
IVORDER 4. Discuses of Natrition.	= 7	- :	1	- 1	- 1	- 1	1	1	1	1	1	- 1	-	1	- 1	- 1	- 1		-1			-1	- 1	- :
1. Atrophy and Debility	-	1	141	91	-	1	1	09	10	-	10	14			e1	01	1	98	- 1	01	19	- 1	-	
CLASS V.—VIOLENT DEATHS	10	11	2	6	8	1-		16	2	91	9	15	- 10	21	8 13	9	O.I.	- 30	5	- 1	Ş	10	10	1-
V ORDER 1. Accident or Negligence	22	10	30	10	3	7	7	90	00	-	21	-01	93	b-	1 2	29	91	10	22	1	13	02	80	+
I. Fractures and Contusions	-	+	н	H	55	1		10	*	1	10	-		01	_	- 1	1	-	*	1	15	-	-	1
2. Wounds	-	*	1	1		1	16	1	1	-	1	- 1	-	1	- 1	•	1	1.0	21	1	:	-		*
3. Burns and Scalds	1	÷	1.	1	1 3	i	-	1	1	1	09			91	_	1	1	10	-	1	1	H		н
4. Poison		1	-	1	_	1	1.1	1	0	+	1		H	-	-	1	1	TK.	7	1	-	1	1	:
5. Drowning	Ĵ	1	25	1	-	90	ON.	1	00	1	93	21	-	1	6		1	- x	90	-	-	-		н
6. Suffocation	7	1	1		-	-	*	-	1	1	1	•		1		-1	1	-	1	1		1	;	-
7. Otherwise	1	;	99	24	GN .	-	-	69	1	н	10	11		1		-	91	*	Ø1	1	4	1		-
V,-ORDER 2. In Battlo	1	- 1	1	-		-	•	1	1	1	-1		- x-	1	1 1	-4	- 1	Tr.	1	1		1	1	:
VORDER 3. Homicide	1	1	1	1		-		1	1	1	- 1	- 1	4	1	- 1	1	1	360	- ()	- 1		1	:	÷
1. Murdor	1	I	1		-	-	- *	-	H	1	61	- 6	1	1	-	11	1	1	1	1	o de l	1		÷
VORDER 4Suicide	1	H	-	-	-	-	Н.	91	-	1	*			1		01	- }	es.	-	- 1		-	:	<del>-</del> :
1. Wounds	,					_	=				1		-	-	_			7	7.	3	3	7	:	_;

2 Polson	ī	ŧ	7	T	T	1	*	=	Ŧ	7	ON.	1	****		7	7	1	1	54	-	ī	1	- 2	8	3	
3. Drowning	1	1	1	1	1	1	!	1			1	1	1	. 1		1.0	-	1	1	- [		1			1	
4. Hanging	X	;	1		:	1			- 1		-1	1	:	:		-	1	1	,	-		н	+	1	7.1	
5. Otherwise and not Specified	1.	-	;	1	=	-	-	+	**	1	F	1	1	1		н	1	1	ī	1		1	=	1		
VORDER & Execution	- 1	1	-1	7	1	+	1	;	- 1		- 1	i	1	- 1		×	1	1	1			- 1	+	1		
1. Hanging	į.	1	1		1	1	4	1	-		1	1	1	1	1		i	ī	i	-	-	7	1	1	1.	
VORDER 6. Violent Deaths not In-	91	4	10	*	60	9	91	-	10	10	=	10	-	65	01	13	00	- 1	74	1-		17	н	09	24	
UNCLASSIFIED	н	1	10	10	1	01	1	1	-	91	G1	1	-	1	H	- K		1	20	1		GR.	=	1	9	
1. Head Disease	1	-1	1	,	- 1	1	1	1	1		. 0	1	1	1	j.	- 1	i	1	1	1	,	1	-	1	1	
2 Hemorrhage	1	-	1		1	1	1				1	1	1	.1	18		1	1	H	1		н	)-:	1	1	
3. Inflammation	1	1	-	10		-	1	1	1		1.	1	1	:	П	*	1	1	GR.	1		-	+	-	9	
4. Otherwise	-1	4	1		1	-		1	7	91	98	1	1	1			1	1	T	1		1	1	1	16	
Causes not Specified	13	10	8	31	51	30	0	81	12	19	9	1	7	30	9	31	7	61	2	81	59	123	9	16	81	
			-	1			1																			

TABLE XVI.—Continued.—Causes of Death, Clussified.

orency.
Montes
302 278 2 339 131
974 948 990
38 30 40
74 81 1 105
57 39 33
88 88
51 31 46
11 16 1 18
6 1
1 18 17
1
8 8
39 30 30

III1. Diseases of Nervous System	94	36	8	1	53	=	0	0	24	10	_	1	2	7	3 30	8	25	53	31	53	27	17	48	305	23
2. Dis. of Organs of Circulation.		20	80		10	-	22	02	_	bo	- 1	- 2	21		60	_	_	Η	12	•21	11	25	13	73	=
Die of Bearland of the	ľ	-	8		- 3				-	5		-			- 5	- 01			000	-		00	ò	140	. 9
a. Die, of maspiratory organs	9	į.	8	1	1	200	2	2	-	_		*	10	•	0	_	9	=		7		-	5	130	0
4. Diseases of Digestive Organs.	91	15	Ξ	1	27		গ্ল	9		00		1	19	01	弱	01	21	20	10	16	12	00	18	8	12
5. Discases of Urinary Organs	1	13	91	1	t-		40	-	91	-	•		69		-	61	- 2	20	2	10	4	10	1-	32	-
6. Diseases of Generative Organs	1	1	- 1	1	•		1		-	1	,	- 8	1		1	1		-	i	-	T	1	1	20	a.
7. Dis. of Organs of Locomotion.	1	1	:	1	1		-	-	4	н		11.2	1		1	1	_,	- 1	1		1		1	1	
g. Dis. of Integumentary System	1	54	H	1	н		61		1	-		1	1	Ē.		1 2		1	69	1	1	-	00	17	-1
IV 1. Developmental Dis. of Child'n	00	88	8	1	81	181	- 02	6	01	G	H	11	8	4	18	71	51	21	33	- 53	10	21	20	168	-
2. Developmental Dis. of Women	-	0	7	1	6	50	10	70	_	99	1	-	10	73		7	-	20	10	4	20	- :	9	30	-
3. Developm'l Dis. of Old People	1	13	00	1	9	61	10	19	21	25	*	1	=	61	#	2		7	25	12	Ξ		5	115	- 1
4. Discascs of Nutrition	1	9	-	:	78	-	-		;	-		-)	1-		16	13	. Y.	4.	9	41		-	10	88	4
VI. Accident or Negligence	-	9	16	i	11	10	6		-	91	0	- 1	16	-	8	9		20	13	-		90	9	9	12
2. Battle	1	- 7	1	1	1	11	-1		- 1	- 1			1		1	i		1	1	1		- 1	1	- 1	
3. Homicide	1	-1	:	1	4		- 1	-	1	- 1	1191		:	- 1	í			- 1	-	12.		-1	1	-	
4. Suicide	1	21	1	-	1	91	-			- 1	٠		-		.00	_	-7	1	i	- 1	21	1	1	1-	-(
5. Execution	1	- 1	1	1	:	- 6	9.		:			•	1	4	đ	1	- 10	- 1	1	-1		- 1	7	1	;
6. Violent Deaths	1	10	i	1	#	4	20	01	1	. !	14	7.	10	- T	13	9		90	31	*		4	21	83	22
CLASS I -ZYMOTIC	11	7	81	3	105	11	88	20	10	=	- 03	12	90		25	45	क	150	2	69	7	9	20	128	56
fOrder 1. Miasmatic	11	7	8	-	101	-	288	=	10	41	OX	10	8	9	98	4	12	55	119	40	18	9	69	811	98
1. Small-pox	1	:	1	1	:	01	1	1	:	.1			;	- 1	00	1		2	24		T	1	1.	13	
2. Meastes	24	91	9	1	100	-	21	- 1	- 1	ŧ.	- 1		9	-	20	-		21	20	-	1	Н		28	-
3. Scariatina	1	10	27	1	22	9 17	-	:	- 1	9	-		96		81		17	33	0	=	9	1-	10	149	Ġ.
4. Diphtheria	7	88	41	1	15	13	11 61	00	1	83			16		3	10		9	15	7	22	20	=	258	16
5. Quinsy	!	г	H	1	-	- 1	-	*	- 1	- 4			1			1			1	. 1	Y	-	-	-	- 13
6. Croup.	1	10	00	1	-	00	.00	-	- 4	3,			7		2	20		-	30	*	1	-;	-	8	21
			-																			•	7		

TABLE XVI.—Continued.—Causes of Death, Classified.

												S	COUNTIES,-1832	E8,-	1889											
CAUSES OF DEATH,-1882.	Missaukee,	Моптое.	Montealm.	Мопетов'псу.	Muskegon.	Newsygo.	Oakland.	Осеава	Ogemaw.	Ontonagon.	Osceola.	Oscoda.	.ogosto	Awaii0	Presque Isle.	Ковсоттоп.	Saginaw.	Sanliac.	Schoolcraft.	Shlawasee.	St. Ciair.	St. Joseph.	Tuscola.	Van Buren.	Washtenaw.	Wayne.
7. Whooping cough		v.	10	1	60	1	-		1	1			1	1	1	1	¢.	1	1	÷	-	i	1		1	6.5
Typhoid Fever	-		00	- 1	10	t-	90	-	1	*	00	1	1	20	:	1	61	9	1	9	10	4	9	00	1	45
8. Typhus Fover	-	- •		1	H	9	1	i	1	1		1	:	G1		i	- (	i	T	i	1	;	1		1	-
Typho-malarial Fever		- 1	1	1	1	i	1	1	i	1	*	i	i	1	1	1	01	01	1	1	01	-	9		1	:
9. Erysipelas		ψ	es	-	-	-	*	-	-	-	- 1	1	1	*	1	1	-	01	- 1	04	61	91	10	ж	9	51
10. Puerperal Fever	7		-	í	1	1	61	Ä	1	1		1	· ·	10	1	i	Q3	01	1	1			1	1	-	-
11. Carbuncle	- 1	- 45	1	1	1	-	-	1	1	1	340	i	1	1	1	1	1	i	1	1		1	Ī	1	4.1	:
12, Influenza			Ī	i	H	1	i	1	i	1	. 3:	1	1	1	1		- 1	1	ì	H	*	1	1	1		:
. 13. Dysentery	i iv	a	1	1	91	01	i	i	1	1	-		01	9	09	1	10	1	- 1	-	7	01	1	1	63	9
14. Diarrhea	-	00	*	1	00	9	C)	1	1	- [		1	1	00	1	1	8	03	i	1	10	-	i	1	-	61
15. Cholera Infantum		50	13	1	90	09	*	=	01	1	G4	1	1	10	1	-	S	-	i	-	00	10	=	23	=	47
Cholera Morbus	- 1		1	:	-	;	7	1	1	1	- 1		ì	-	i	1	61	-	-	1	,	1	1	1	00	00
In. Cholera	. 10	4	-	1	1	1	H	1	1		1	Ì	1	1	1	1	1	1	1	1	-	1	1	1	-	65
17. Ague	60	0.9	00	1	*	1	-	+	1	1	20	-	1	00	1	1	10	Ġ1	-	-	01	10	50	01	00	45
13. Remittent Fover	,	*	65	-	02	-	49	H	1	G4		İ	1	7	**	1	¢	-	1	i	+	63	-	1	OF	19
19. Rhoumatism			61	1	1	-	01	Ī	1	-	1	1	1	-	1	1	-	1	1	-	93	00	1	00	01	18
20. Leprosy	,		-	1	1	1	1	i	1	1		İ	:	1	1	1	1	1	1	1	-4	i	1	:	1	;
IORDER 2. Enthetic			1	1	1	1	+	1	1	1	**	1	1	1	1	1	74	-	1	1	÷	1	1	1	1	*
1. Syphilis	- 4:	1.5	1	i	1	1	**	:	1			1	1	1	1	1	1	1	1	1	- 0	1	- 1	-	:	4
. Stricture of Urethra	- 1	2	1	1	1	1	1	1	1	1		1	1	1	1	1	:	1	2	1		1	1	-	i	1
Stricture						_							-				1						Ü	_		

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TABLE XVI.—Continued.—Causes of Death, Classified.

CAUSES OF DEATH,—1882.	Missaukee.	Monroe.	Montmor'ney.	Muskegon.	Newaygo	Oakland.	Осевра.	Ogemaw.	Ontonagon.	Osceola,	.ogse1O	Ottawa.	Presque Isle.	Roscommon,	Saginaw.	Sanllac.	Schooleraft.	Shlawasee.	St. Clair	st. Joseph.	Tuscola.	Van Buren.	WanshleaW	Wayne.	Wexford.
3. Phthisis (Consumpt'n of Lungs).		28	81	90	10	8	13	-	-	90		8		93	32		0,0	8	0 49	23		23	2 46	275	_
4. Hydrocophalus	-	1	1	4	i	1	1	1	-	1		1	1			1		1	1	1	1	-	1	93	
3. Marasmus	1	1	-	61.	1	-	1	1	1	:	:	1	1	1	00	:	1	1	1	i	1	1	!	4	
CLASS III.—IAXCAL DISEASES	90	12	96	8	98	136	8	6	10	8	- 01	4 107	7	10	272	69	30	35	8 107	85		17 27	1139	88	- 53
IIIORDER 1. Nervous System	G.	98	53	25	11	9	10	.01	O1	10	-	1 42	21		3 101	88	05	51	1 31	81	_	71 17	48	282	21
L Cophalitis	1	1-	10	10	+	10	1	1	1	91	- 7	7	_	1	22	7	1	01		31	23	99	51	98	_
2. Apoplexy	1	gı	i	- 1	1	10	-	-	1	1			1	-		21	1	1		-	-	-	01	=	
3. Paralysis	1	90	93	10	1	90	10	1		-	-	-	1	1	20	99	1	_	9	9		-	8 15	40	-
4. Insanity	1	1	1	· ·	į	-	:	i	+	1		- 1	1	_	1	-1	1	1	1	1	1	1	-	-	- ^-
5. Chorea	H	1	1	1		1	1	1	:	1	-	1	1	1	1	- 3	1	1	1	1	1		1	- 1	-
6. Epilopsy	-	1	O3	-	1	10	1	1	1			1	1	1		-	i	-	1	1		1	-21	01	-
7. Tetanus	1	1		*	1	T	-	1		1	1	1	!	1	20	1	1	i	1	1	1		1	10	
8 Convulsions	1	4	51	7	28	99	1	:		20		19	1	-	8	7	-		-	-	01	9	30	2	_
Brain Diseaso	-	24	7	90	23	00	63	-1		01			1	1	13	20	01		2 2		(2	90	2	55	71
". Dropsy of Brain	1	1	- 1		1	7	i.			1		1	1	1	C.	-	1	1		-	_	00	-	10	- 1
10. Spinal Fever	1	21	1		T	91	-	1		24			1	1	-	64	i	1	61		79	91	-		10
11. Spotted Fover	-	1			1	1	1	1		1		1	1	1	1	1	1	1	1	i	1	1	1	1	
12. Moningitis	1	1		. 9	1	-	1	1		1			1	1	_	:	1	1		1	1		-	~	
13. Meningitis, Cerebro-spinal	1	1	-	•	1		1	-		-		1	1	1	1	7.7	1	i	-	24	01	1			<u>.</u>
14. Meningitis, Spinal	-		20	90	-		01			_		-	1		17	-	1	_	28	-			9	_	:

TABLE XVI.—Continued.—Causes of Death, Glassified.

												,				;										
CAUSES OF DEATH, 1882.	Missankee.	Monroe,	Montesim.	Мовітогевсу	Muskegon.	Newaygo.	Oakland.	Осевпа.	Окетаw.	Ontonagon.	Osceola.	Oscoda.	Officeso.	GWa31O	Presque Isle.	Roscommon.	Saginaw.	Sanilac.	Schoolcraft.	Shiawassee.	St. Clair.	St. Joseph.	Tuscola.	Van Buren.	. Мавріспа W.	Wayne.
8. Intussusception	1	<u> </u>	CT P		1	1	1		1	1	1	1	1	1	1	- 1	1		- 1	1	1		1	1	-	- 1
9. Stricture of Intestines	1	<u>;</u>	1.0		H	1	;	-	1	1	1	-	1	1	i	i	1	1	- 1	1	-	1	1	1	- 6	01
10. Fistula	1	Ì	- 1		1	1	1	1	1	1	1	1	1	Ť	1	1	1	:	- 1	1	1	1	1	1	1	:
11. Stomach Diseases	1	-	1		*	1	00	;	7	1	i	1	1	10	i	1	23	1	-	1	00	01	-		00	10
12. Pancreas Diseases	1	1	1		1	İ	İ	1	i	i	i	1	Ť	1	Ť	;	+	1		1	÷	-	1	1		-;
13. Hepatitis	1	1	1	1	Ī	1	1	1	ì	i	i	1	1	i	Ť	1	1		-	-	÷	+	:	н	-	1
, Billary Calculus	-	1	i	1	1	1	1	1	1	1	1	1	1	1	- 1	i	-	1	;	+	1	1	1	1		1
14 · { Jaundice	1	-	1	-	1	1	01	i	1	i	1	1	1	-	i	1	21	;	- 1	1	GR.	+	1	п		10
15. Liver Diseaso	1	65	-	1	1	1	00	-	Q¥.	1	-	1	1	00	1	1	-	1		1	60	9	*	н	00	91
16. Spleen Discase	1	Ì	1	Ī	1	4	1	+	i	i	+	1	1	1	1	Ť	1	- ;	1	1	+	-	1	1		1
17. Bowel Diseases, etc	1	1	99	1	-	1	09	Ì	1	i	1	1	1	62	1	1	:	1	-	-	1	1	1	-	69	9
18. Mouth Disease	1	i	1	1	İ	1	1	1	Ť	i	1	Ť	1	i	1	Ť	1	-	- 1	1	1	÷	1	4		1
IORDER 5. Urinary Organs	j	0	91	1	2	1	10	4	1	01	-	-	1	00	1	1	13	01	_	10	10	15	*	10	t+	65
1. Nophritis	1	i	1	i	i	i	1	1	1	1	1	1	+	1	1	1	-	i		-	;	. 1	-	-		-
2. lschuria	:	1	1	i	1	1	1	÷	1	1	1	1	-	1	1	1	1		·	÷	1	1	+	1		1
3. Bright's Disease of Kidneys	- }	н	1	1	*	1	-	00	1	-	1	1	-	-	1	1	9	7	- 7	*	-	:		1	10	16
4. Diabetis		9	1	1	r	1	*	•	i	;	-	1	1	-	-	1	69	-		1	-	00	90	01	=	69.
5. Calculus (Gravel, etc.)	-	1	1	Ì	i	1			i	1	1	1	1	1	1	İ	:		1	;	-	1	+	1		-
6. Cystitis	-	1	7	Ì	i	1	1	+	T	-	1	+	-	-	-	Ť	+	- 1		1		-	1	:	-	1
7. Kidney Disease	<b>-</b> :	01			24			F	ij				_;	-		-	10	-	_	-		-	-i		_	61

IIIORDER 6. Generative Organs	1	:	t	1	;		1	1	Ţ	1	!	1	1	1	1	1	1	Ŧ	1	-	5	;	-	90
Ovarian Disease	1	:	- 1	1	1	•	1	1		1		1		1	1	1	1	1	:	- 1	1	- 1	+	4
Ovarian Tumor		1	- 1	- !	1		i	1	•	:		1		1	- 1	1	1	-	- }	,	1	1	÷	1
2. Disease of Uterus	1	1	-1	1	1		1	1	4		1	1	1.0	-	1	1	1	1	:		-	-	1	00
3. Hydrocele	1	;	1	-	1	4	1	-	19	:	-	1	1	1	1	1	1	1	1	•	1		+	4
IIIORDER 7. Organs of Locomotion	7	1	1	-	1	-	1	1		-	1	1	- 1	1	-	1	1	1	- 1	i	-1	- 10	1	1
1. Arthritis		4	1	!	- 1	*	1	1		1		!		1	1	1	1	-	;	,	1	;	+	:
2. Joint Diseases	. 1	1	16	П	- 1	H	1	1		ı	1	1		1	- 1	1	1	1	1	•	1	_;		1
IIIORDER 8. Integumentary System	П	04	-	П	-	01	1	1		н		1		1	10	H	1	1	03	1	1	:	00	17
1. Phlegmon		1		1	1	-	-	1		Т		1		1	00	1	1	1	1		1	1	1	C1
2. Ulcers	•	H	- 4	П	1		1	1		1	,			1	1	1	1	1	:		4	:	-	-
3. Skin Disease	н	1	п	i	-	-	1	1	1			-	- 1	1	1	-	1	1	01			:	00	14
CLASS IV.—DEVELOPMENTAL DIS	10	21	31	46	3	55	15	90	10	15	¢4	1		7	138	85	00	64	13	94	75	17	88	341
IVORDER 1. Dev. Dis. of.Children.	10	8	18	8	8	13	6	Q1	Q1	6	F	8	-	-	81	17	93	13	8	133	10	15	18	891
1. Still-born	00	139	15	16	18	133	t.	61	03	9	-	81	-	1	89	14	69	Ħ	17	83	6	21	11	125
Infantile	:4.	H	4	1	1		-	1			- 6	1	- 4	1	*	1	1	1	C4		-	7	1	10
Premature Birth	: 1	٦	г	100	1	•	1	1		99	,	-		1	*	-	T	1	*	- 1	1	- 1	1	9
3. Cyanosis	÷	1	п	1	-{	- 1	1	1	· Y	-				1		4.	1	1			1	-	+	7
4. Spina Bifida		1	. 0	į	1	.)	1		-6	1		į	. !	1	1	T	1	1		1.	1	1	1	1
5. Other Malformations	1	П		1	- 1	•	1	-		-		i		1	1	1	1	1		,	1		+	+
6. Teething	•	н	г	9	1	-7	H		-4	1	- 1	1	- 1	1	NO.	¢1	i	1	1	•	1		-	10
7. Injury at Birth	-1	1	£	1	1		1			1		1	1	1	1	1	1	i	- 1		1		+	1
IVURDER 2. Dev. Dis. of Women	н	6	4	6	02	95	03		н	91	-	H	61	1	7	4	-	60	9		00		9	30
Dysmenorrhea	i	1	k	1	3	1.	1			- 1		1	- 1	1	1	1	1	1	1		1		+	
Turn of Life	-1	69	×	1	1	.00	1		74	н		1	4	1	1	H	Ì	1	:		1		-	
Child birth	1	1	4	6	00	20	00		Ħ	H	н	-	63	1	7	63	-	O1	10	*	60		9	88
2 Abortion		-1	S.E.	1	1	•	1			1		1	- F	1	1	1	1	1	:	- 1	-1		:	64
Utcrine Hemorrhage			=					•	=	_	_	_	_	1			_		-1		Ţ		=	-

TABLE XVI.—Continued.—Causes of Death, Cursified.

											5	OUN	7 1 1	8, 1	1882.											
CAUSES OF DEATH, 1882.	Missaukee.	.оотпоМ	Montealm.	Montmorency	Muskegon.	Newaygo.	.bnatlaa0	Осенпа.	Окстаw.	Ontonagon.	Osceola.	Oscoda,	Otsego.	Ottawa, Presque lale.	Roscommon.	Saginaw.	Santlac.	Schooleraft.	Shiawassee.	St. Clair.	Bt. Joseph.	Tuscola.	Van Buren.	Washlenaw.	Wayne.	Wexford.
IVORDER 3. Dev. Dis. of Old People	1	in or	i	1	1	-1	1	-	:	1	1	1	1	1	1	1	1	,	n t	- 3	1	1	- 1	- :	1 = 1	: 1
1. Old Age	1	133	36	-	9	01	15	60	1	01	60	-	T	11	- 09	20	133		-	18	15	=	1	22	115	1
IV ORDER 4. Diseases of Nutrition.	-		- 1	1	1	- 1	Ī	1	1	1	- 1	-:	+	1	- !	- !	- 1	- 1		- ;	i	1	:	- 1		- 1
1. Atrophy and Debility	1	9	1	1	¢4	1	*	1	+	1	-	- 1	1		1	. 16	10	- 1	- 1	G	.01	1	-	20	88	-1
CLASS VVIOLKNT DEATHS	-	11	316	-	18	1.	13	10	.00	H	01	-	1	61	-	. 51	13	-	=	16	90	6	21	18	- 12	æ
V ORDER 1. Accident or Negligence	-	9	16	1	14	10	0	60	-	-	04	- 1	1	16	-	25	9	-	00	13	4	9	00	9	99	62
1. Fractures and Contusions	1	1	00	1	-	1	00	7	-	1	1	;	+	1	-	-				00	1	1	00	09	G	21
2. Wounds	1		20	1	i	1	H	1	1	1	ï	- 1	1	:	_	-	_			- 1	1	;	- 1	00	-	
3. Burns and Scalds	1	-01	1	1	09	1	1	i	1	-		- (	1	90	1	01	-			69	1	o.	П	1	9	:
4. Poison	i	-	01	1	i	1	00	1	1	1	1	-1	1	1	1	12	1			I	-	-	1	-	00	1
5. Drowning	1	-	5	1	00	-	-	1	1	1	H		1	10	1	15	į	_	01	00	O4	1	4	1	27	-
6. Suffocation	1	-	-	1	03	1	Ì	i	1	1	1	- 1	1	1		-	1	1728	- 9	- :	1	1	-10	-	-	1
7. Otherwise	1	1		1	Q1	*	1	01	1	1	-	1	1	C4	1	6	1		1	4	1	1	1	i	90	4
VORDER 2. In Battle	1	-	1	-1	1	1	i	÷	-	1		- 1	÷	1	1		- 1		):	t	-	1	1	-	1	:
VORDER 3: Homicido	-	1	1	1	-	-	1	i	1	+	;	i.	+	- 1	1					- 2	1	- 1	- 1	1	- 1	- 3
1. Murdor	1	*	1	1	1	1	i	i	1	+	1	1	+	1	1	4			-	-	1	1	:	1	-	;
VORDER 4. Suicide		04 0	1	1	-	69		i	+	+	1		-	-	1				- 16	1	i	04	:	-1		Υ.
The state of the s		*			1		Ŷ		1														1			:

2 Polson	1	1	-	1	1	9	Ī		i	Ì	i	Ī	7	7	1	1	;	11 11	i	1	F	1	-	7	1	i
3, Drowning	1	1	- 1	1	- !	1	İ	i	-		i	1		-		1	-		1	1.5	- 1	1			1	1
4. Hanging	1	1	1	1	1	1	i	i	1	i	1	1	!	1	-	1	-	-	1	- 4	4	1			1	
5. Otherwise and not Specified	1	1	1	п	1	1	1		1	İ	i	1		1	1	1	-	+	1	1	- 4	1	н	-	1	9
VORDER 5. Execution	- 1	ij	i		- 1	1	Ť	i	Ť	i	Ť	-	-	1	1	- 1	1	1		•	1	1			1	- 1
l. Hanging.	1	1	1	1	1	İ	1	1		i	1	1	- 7	1	1	1	1	1	1		i	1		-	1	1
V ORDER 6. Violent Deaths not In-	- 1	00	1		*	- 1	00	01	01	i	i	1		10		- 1	13	0	- 1	90	<b>51</b>	**	1	4	51	83
UNCLASSIFIED	-	9	-	1	i	1	9	1	-	7	i	-	,	1	61	:	60	00	1	7	Ol	-			-	14
1. Head Disease		- 1		-	1	j	i	i	i	-1	i	1		-1	1	1	i	-	1	-	1	-	- A.	_;	•	-1
2. Hemorrhage	1	- 1	1	-1	- !	-	-	i	1	-	Ì	1	÷	Ì	1	1	Ø.	1	i	1	- 1		173		-	1
3 Inflammation	1	9		-	1	i	1	1	-	i	1	1	7	1	91	1	1	00	1	н	C)	- 6	-	•	1	120
4. Otherwise	1	1	1	1	1	1	63	i	1	i	•		÷	1	1	1	-	-	1	1	1		- 4		1	63
Causes not Specified.	10	88	30	1	49	17	24	16	2	1	27	-	00	35	21	1	9	21	1	10	30	6	23	10	26	170

3LE XVII.—Exhibiting, by Sex, by Months, by Specified Causes, and by Ages in Periods of Years, the Number of ersons Returned as having Died in Michigan during the Year ending December 31, 1882; also, by Sex, and by Specified Causes, the Number of Persons Returned as having Died during each of the Years 1877 to 1882, inclusive (Still-births included).

MONTHE, 1889.  MANY.  M														DEA	ТНВ	FRON	M AI	DEATHS FROM ALL CAUSES.	USE	ایہ															
1372 1311 1480 1984 1453 1945 1988.  23 556 772 588 653 50 165 58 65 65 65 65 65 65 65 65 65 65 65 65 65			1			Ř	ONTE	is, 18	.; %							YEA	.86.							84 0	Ħ	PER	10 D	ô	X X	189	88	렸			
1372 1311 1490 1264 1284 1463 1451 1450 1491 1492 1491 1570 78 16425 16228 16102 14407 12766 6535 1178 657 655 187 655 187 655 187 646 458 444 474 470 657 658 653 145 658 145	February.	v.cotongly.						July.		September.	October.								.8781		5 to 10.	10 to 12°	In to 20.												.19vo bna 08
715 685 792 681 683 776 827 789 700 830 80 8713 10903 8045 752 6632 345 60 80 80 814 83 681 80 6 72 789 700 864 80 60 7410 684 80 60 82 879 676 851 882 40 828 77 264 243 80 80 80 80 80 80 80 80 80 80 80 80 80	111 876		1 13	172 13	111 14			_				_	70 7							375 1			8 23	17 6	15 5	8 50		8 44	47.						
654 624 683 681 686 673 714 706 656 727 26 764 8010 7410 6846 6082 2879 576 351 382 400 338 272 254 243 202 209 207 246 236 236 236 236 291 291 3 2 5 2 5 4 4 3 5 8 2 48 65 47 37 52 44 1	Males 524 50		96	10	185					827									6323						27	6 25	25	5 24	2 264						
5 2 5 4 4 3 5 8 2 48 65 47 37 52 44 1 1	remales 453 5			_			_	_			_						-	-	2808		576		_				75	3 200					308	206	
	-		*	6.5	Q4	10	C.S	10	*	4	00	10					47	37	55		_	_	:	-			-	-	-				1		

TABLE XVII.—CONTINUED.—Specified Causes of Death.

24	.07 of 65	1	1	1		1	1	1	1	+		1	1	1	1	1	1	1	1	1	
YEARS1882.	50 to 55.	-	+	- 1	- :	1	_		- 1		1	1	- 1	-1	-1	:	- 5	- 1	- 1	- ;	- ;
	1 45 to 50,	-	÷	÷	+	+	1	- ;	+	1	1	- ;	- 1	-	1	1	- :		1.5	- 1	
40 8	40 to 45.	H	-	÷	÷	÷	1	-	:	÷	-	-	15	-	+	+	-	-:	- 1		-
PERIODS	30 00 40	01	-	i	i	÷	1		1	+	H	÷	1	-:	÷	+	+	;	- 1	- 1	
ERI	30 to 35.		1	÷	1	-	1	-	1	-	-	1.	Ť	i	+	i	1	-	+	1	- 1
A	25 to 30.	69	Ť	÷	1	н	=	- 1	1	-	1	1	÷	÷	÷	-	÷	÷	:	+	
N	1 20 to 25.	60	:	-:	1	:	:	-	i	i	-	01	<del>-</del>	69	+	1	-	-	÷	+	
AGES IN	12 to 20.	-	1	-1	-1	1	-1	1	:	-	i	:	-	-	÷	;	÷	i	÷	÷	
Ă	1 10 to 15.	-:	Ť	1	1	=	=	ां	1	1	÷	÷	÷	i	-	÷	i	i	÷	1	- 1
	1 2 to 10.	:	1	1	i	:	1	1	÷	i	i	64	<u></u>	=	-	÷	÷	-	-	-:	-
	Under 5.		1	1	1	-	1	-	1	T	1	64	94	1	1	1	-	1	1	1	
Унаве.	STRI CAUSES OF DEATH.	12 7 6 Abortion	Abscess of Abdomen		1 Abscess of Arm	2 Abscess of Back			Abscess of Bladder	1 Abscess of Bowels		3 1 Abscess of Brain		1	1 Abscess of Ear	1 1 Abscess of Groin	Abscess of Hand		1 Abscess of Head		1 Abscess of Hin
	1880	9	-							91	H	-	1		•		,	×		-	0
H		00	1	1	1	1	1			01	-	10	00	01	-	- 1		-			
YR	.1881				- 1	-	O.	01	- 4	1	4	9	60	00	1	- 1	-	-	- 1	1	
YR	1881	6	1	1	1				- 1						_		_		_	_	
Y		6	;	-	+	- 1	-		+	÷	:	- 7	-	- :		:	- 1	1.17		- :	
YE	1882.		1	_	_	1	:	1	+	1	:	1	-	1	+	:	- 1	1	- 1	+	_
TE	Таклоwп. 1882.	1	1	1	1	_	_	_	-	_	_	_	_	_	1	:	_	1	:	- ;	
AT	Десешрет. Плкпоwn.	1	-	-	1	-1	1		1	-1	-	_	1	-1	T	1	1	1	:	_	
	November. December. Unknown.	1		1	1	1	:	1	1	1	1 1	-	1	-	1	4	1	1	:	- ;	
1883.	Yovember.  Unknown.  Unknown.	1 1	1	1 1	1	1 :	: 1	1	1	1	1 1 1	-	1	. 1	1	1	1	1	1	1	
18, 1882.	September.   October.   December.   December.   December.	1 1 1	:	1 1 1	1 1 1		1	1	1	1 1 1	1 1 1 1		1	1	1		1	1	1	1	
18, 1882.	June, July, July, July, July, July, July, July, Juknown, Juknown, Juknown, Juknown, Juknown, Juknown, July,	. 1 1 1	:	1 1 1	1 1 1		1	1	1	1 1 1	1 1 1 1		1	1 1 1 1 1	1 1 1 1	1 1 1 1 1 1		1 1 1 1 1 1		1 1 1	
1883.	Jane.  Jany.  Josephener.  Jose	2 1 1		1	1 1 1				1 1	1 1 1 1	1 1 1 1		1 1 1 1 1	1	1 1 1 1			1	1	1	
18, 1882.	Jane.  Jany.  Josephener.  Jose	2 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1	11-	1		1	1 1 1	1 1 1 1		1 1 1		1 1 1	1 1 1 1 1 1 1		1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
18, 1882.	Матећ. Артіі. Ливу. Јипе. Беретрег. Веретрег. Посовег. Посовег. Посовег. Веретрег. Веретрег. Матав.	2 1 1		1	1 1 1 1 1 1 1 1 1	1 1 1	. 1 1	1	1	1 1 1 1 1 1 1 1 1		8	1 1 1 1	1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
1892.	Матей. Матей. Матей. Ловетак. Матей. Ловет. Мау. Ловет. Мау. Матек. Мочетвет. Мочетве	2 1 1		1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1	1 1	. 1 1	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1	1	. 1 1	1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	
1892.	April.    May.   June.	2 1 1	: : : : : : : : : : : : : : : : : : : :	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 1 1 1	1 1	1 1	1	1 1 1 1 1 1 1			1	1 1	1 1 1 1 1 1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	

TABLE XVI.—Continued.—Causes of Death, Classified.

										-	Cou	OUNTIE	E 8 ;	188	63									į
CAUSES OF DEATH, 1882.	.MTAT8	Адсопа,	Allegan.	Alpena.	Antrim.	Baraga.	Barry.	Bay. Benzie.	Berrlen.	Втапећ.	Calhoun,	Cass.	Charlevolx,	Срероуваль	Chippewa.	Olare.	Cifnton.	Crawford.	Delta.	Eaton.	Emmet.	Genesee.	Gladwin.	Gr. Traverse.
IVORDER 3. Dev. Discases of Old People				i		1	1	1				1		1						1	i	l		
1. Old Age	647	-	18	80	-	1	21	12	-	18	1 9	101	10	01	4	-	10	1		21	60	10		
IVORDER 4. Discases of Nutrition			Ī	i	1	+	+	+	- 1	,	1	_!	- !	1	1		- 1	- !		- 1	1	1	- 1	
l. Atrophy and Debility	8	1	24	1	1	H	00	31		4	01	-	00		1	1	i	1	· ·	-	-	63	1	
CLASS V.—VIOLENT DEATHS	778	-	81	10	Ĉ,	01	00	53	+	14	12	=	ю	90	*	03	=	0.9		10	01	18		н
VORDER I. Accident or Negligence	83	1	13	*	-	91	1	17	-	10	10	6	-	9	00	-	9		01	-	-	=		-
1. Fractures and Contusions	86	-	7	i	+	-:	:	91	-		03	*	1	1	i		1	1		1	1	4	1	
2. Wounds	83	ı	7	İ	1	1	1	-	1			-	-	1 1		1	1	-	_	1	1	1		-
3. Burns and Scalds	22	1	П	Ť	1	1	1	00		99	1	-	1	1	1		1	1	TEA	94	1	7		_
i. Poison	8	1	H	İ	1	1	;	01			1	1	1	1	1	1	-	1		1	-	61	_	-
5. Drowning	140	1	1	4	-	-	1	7	1	*	61	-	-	1 3	C.	1	C.	1	1	-		-	1	-
6. Suffocation	22	i	-	i	1	1	1	-	_	-	-	-	-	64	1	-	7	1		-	-		-	-
7. Otherwise	#	-	10	İ	ī	-	-	-	1	:	1	1	1	1	7	1	G,	24		1	1	01	1	
V()RDER 2 In Battle				i	i	÷	;	+				_	1	1		-	- 1	1		- 1	1	i	_	100
VOrder 3. Homicide			1	i	i	-	- 1	1	1		1	1	- 1	1	i	- 1	_	1		1	- 1	_ [	-	
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VORDER 4. Suicide	63		-	1	i	1	1	1	1	,	40	-	-!	01	- 1	1		- 1	01	01	-	00		_
1. Wounds	00			_	-			-	-	_		_	_	_						_				_

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3. Drowning	10			-	1	T	1	1		+	_	ï		1		1	1	;	1	1		н	19
4. Ilanging	90	-	-	1	1	į	1	1	-	:	=		- 1	3		1	1	į	1	-		;	1.8
5. Otherwise and not Specified	8	- 1	-	İ	i	-	1	-	-	-	61	1	-	1	-	1	ţ	1	78	7		1	
Of VOrder 5. Execution	-		-	1	1	i	-	- 1		+	1	- 1		1		- 1	;	- )	-	1		1	
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V()RDER 6. Violent Deaths not Included above	200		70		-	1	22	10	10	-	98	-	- 1	- 4			*		1	*		00	
UNCLASSIFIED	10	-1	111	1	1	1	41	:		1		1	1.	10		- 1	. ;		01	-		;	-
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2. Hemorrhage	12		,	-	1	1	-	1		1		;	- 1			1	;	i	21	1		1	- 1
3. Inflammation	35			1	1	1	-	1	36	1	_	-1	- T	64	- '	1		- 1	1	H		3	H
4. Othorwise	22		1	Ť	1	1		1	11	1		1	- t	1		1	1	1	1	1		1	-
Causes not Specified	55	-	24	3	G	21	16	31	51	17	7	11	О	16	-	10	17	-	*	18	25	17	20

TABLE XVI.—Continued.—Causes of Death, Classified.

											ဝ	COUNTI	IES,	8	. 80	Ì										
CAUSES OF DEATH, 1882.	Gratioi.	Hillsdale.	Houghton.	Huron.	Ingham.	lonia,	losco.	.nitodnal	Jackson.	Kalkaska,	Kent.	Keweenaw.	Lake.	Lapeer.	Leelanaw.	Lenawee.	Llvingston.	Mackinne.	Macomb.	Manistee.	Manitou.	Marquette.	Mason.	Mecosta.	Menominee.	Midland.
All Causes	106	236	550	150	676	990	29	135	356	828	95	101 008	10 37	7 245	88	401	178	18	267	219		419	80	193	93	87
Specified Causes	153	988	214	119	257	072	3	133	329	819	41 76	764 100	0 30	252	55	370	167	16	949	197	1 0	364	1.	177	17	1 8
Causes not Specified	13	10	38	123	81	50	6	81	15	19	10	27	F.	7 20	9	31	п	g)	18	65	<b>GN</b>	55	9	16	21	=
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IZymotic Diseases	48	41	68	88	73	104	12	49	87	92	26	304	25 15	8	00	76	72	10	36	8	00	130	34	101	88	=
IIConstitutional Discases	25	61	5	27	47	4	00	15	92	61	94	1117	61	700	1-	16	82	-	8	14	G9	25	đ	16	10	25
IIILocal Diseases	55	7	19	23	89	75	53	81	136	115	9	215	34	8	8	H	99	00	11	25	1	10	18	45	1-	22
1VDevelopmental Discases	16	13	25	21	50	98	00	00	8	38	22	67 2	81	61	9	49	30	6	88	27	.02	00	1	1	13	x
VViolent Deaths	10	11	19	6	00	61	1-	9	16	12	23	68	-	25 119	00	13	6	64	00	15		47	10	10	1-	7
Unclassified	1	-	93	40	1	01	i	1	:	16	1	51	1	;	-		1	1	00	1		.01	1	1	1	9
Orders.										-	-	_	_									_				
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2. Enthetic Diseases	1	1	!	+	1	1	i	+	1	1	+	1	1	1	1	i	i	1	1	1	+	;	i	1	1	- 1
3, Dietic Diseases	1	1	1	4	1	1	i	İ	1		1	1	,	_	1	1	i	1	-	1	- 1	1	1	1	.1	- 5
4. Parasitic Discases	i	1	7	+	7	1	Ì	1	00	1	1	1	1	1	1	-		1	-	1	-	1	1	1	1	10
II1. Diathetic Discases	11	139	1-	61	10	11	-	1	50	51	-	88	10	1 9	1	81	00	i	14	*	*	00	H	19	01	*
2. Tubercular Discuses	20	25	17	10	5	33	D	5	100	49	1 1	119	-	1 25	7	89	30	Ä	28	10	.01	98	90	=	-	25

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4. Diseases of Digestive Organs.	5. Diseases of Urinary Organs	6. Diseases of Generative Organs	7. Dis. of Organs of Locomotion.	8. Dis. of Integumentary System	IV 1. Developmental Dis. of Child'n	2. Developmental Dis. of Women	3. Develop'l Dis. of Old People	4. Diseases of Nutrition	V1. Accident or Negligence	2. Battle	3. Homicide	4. Suicide	5. Execution	6. Violent Deaths	CLASS IZYMOTIC	IORDER 1. Miasmatic	1. Small pox.	2. Measles	3. Scarlatina	4. Diphtheria	5. Quinsy	6. Croup

TABLE XVI.-Continued.-Causes of Death, Classified.

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	Gratiot.	Hillsdale	Houghton	Huron.	Ingham	Ionia	Iosco.	Jackson,	Kalamak	Kulkusku	Hent.	Кечесия	Lake.	Lapeer.	recisus	Lenawee	Livingsto	Mackina	Macomb.	Manistee	Manitou.	Marquett	Mason.	Mecosta,	
T. Whooping-cough	10	21	1	-	1	01	-		59	90		49	1	1		9	9	1	1	91	i	24	1	-	
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Trphus Fever	Ť	i	-	1	- 1	:	- 1	1	1	1		-	1	01	1	:	1	1	1	1	-	1	1		
" Thu-malarial Fever	i	1	i	-	1	-	-	:	1	1		1	1	-	1	1	1	-	1	7	1	1		-	3
Neystrelat	-	00	:	61	4	1 2	-	01	1	03	-	9	1	21	-	8	1	;	-	64	1	.0	- 01	0)	1
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19. Rheumatism	0	1	90	1	7	69	:	1	10	29	01	1	1	-	1	90	-	1	*	-	1	9		21	28
20. Leprosy.	1	-	1	1	+	1	1	1	1	1	1	1	1	1	1	-	1	1	1	i	1	1	;	į	1
L. ORDER 2. Enthetic	1	1	1	1	- 1	1	1	1	1	-	-	1	1	1	1	1	:	1	1	1	1	ŧ	1	1	i
I. Syphilis	1	T	1	1	1	1	+	1	1	1	1	1	1	1	1	1	1	1	1		1	1	į	1	1
Stricture of Urethra	***	İ	İ		1	44	:	1	-	-	1	1	1	1	1	-	-	1	-	i	1	1	1	1	3

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3. Delirium Tremens (Alcohol'm)	1	, ė	1	1	1	1	:	İ	1	1	-1	11	-	1	1	1	1	,	1	1	-:			-	1	
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ā. Oplum Eating	1	6-	1	1	1	1	1	÷	:	1	1	1		1	1	1	1		1	:	+	1	- 1	1	181	
IORDER 4. Parasitic	- 1	/	1	1	-	1	÷	1	02	-1	1	-1	-	1	4	i	-		1	1		1	7	- 1	1	
l. Thrush	1		7	}	1	1	- 1	1	01	-1	- 1	1	-	1	1	1	-		1		1	3	- 1	1	1	
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3. Discuse of Scalp	1	1	1.	1	j	1	1	1	1	1	1	1		1	1	1	1	1	1	1	1	1	,		125	
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Dropsy	9	-	9	-	1	16	-	1	9	9	*	16	_	-	1	90	93		1-	4	4	00	- 6	1	9	
3. Cancer	00	90.	1	-	*	-		1	14	9	-	en en	_		1	15	10		1-	:	-	NG.		_	91	
4. Noma (Canker)	03	1.00	1	1	1	G.		1	1	1	i e		-		1	1	1		1	:	:	4	_	***	7	
5. Mortification	1		1	1	1		4	1	1	1	10	1		· i	1	1	1	14	1		1	:		1	25	
IIOrder 2. Tubercular	30	3	17	10	27	88	οï	53	18	69	=	7 611	-	25	-	88	90	н	25	10	-01	8	30		15	
l. Scrofula	1	C)	1	91	1	7.	- 5	1	1		-	9			-	O.	i	-	1	1	_	-	+		-	
2. Consumption of Bowels	1		İ	1	4	00	-	1	-	H	-	61	-	1.	i	1	-		~	£		135	. 7	1	10	

TABLE XVII.—Continued.—Specified Causes of Death.

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	Females	1			-1	1	-	- 1	_	_	_	_	- 7-	1	1	-	1	1	:		1					1	-1	-1	- 1	- 1			•			:
	Males				1		- 1	1	1	- 1	_		_		1	1	1	1	10		1			- 6		1	+	- 1	- 1	- 1			•			;
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	Females		-	-		-	-	7	-	-	-		_		-	-	-	-	0	atarrh of Stomach	1	-		-	- 1	-	-	- 1	_:		-			_		:

-Onder 2. Organs of Circutation. 8 16  1. Pericarditis. 9 1  2. Anourism. 9 1  3. Heart Disease. 9 1  1. Emboli. 9 1  2. Laryngilis. 16 15  3. Bronchitis. 9 2  3. Bronchitis. 16 15	1   00   10   21	111 - 11 - 1 -	2 7 9 2	1 1 1 2 7 1 9 1	1 1 1 1 1 1 1 1	1 1 1 9		111	11	11		11	1 1	1	1 "	11	1.1	1	11	1	1	1	1	:
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organs. 16	60   100   21   1	F   F   B   F	H 4 9 H	3 - 0	99 3				1	1	1	1	1	1	1	1	1	ŀ	1	1	1	1	4	:
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5. Pneumonia 10 10	10	00	12	Ħ	09	10	22	55	9	9 01	9	1 30	61	A	13	-	_	6		1 13	*	=		61
6. Asthma 1	1		1	7	1	1	-	-	1	1	1	1	-	-	1	1	Ģ3	1	1	1	1		1	-
7. Lung Discase 5	01	H	51	91		00	10	24	-	10	91			1	1	1	-	1	1	-	-	-	1	0,
8. Catarrh	1	1	1	1	1	-	+	1	1	1	1	1				1		1	1	1	1		1	+
IIOnder 4. Digestive Organs 8 10	10	i	6	13	-41	-	100	14	1 20		00	1 16	-	91	11	1	10		90	15	0)		- 9	9
1. Gastritis	-	1	1	65	-	7	-	+	1	21	-		-	0)	-	1	i		1	1	1	1	1	21
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3. Peritonitis	1	1	1	1	+	1		-	1	•	!	1	_	1	1	1	1	1	1	_	1	1	1	+
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5. Ulceration of Intestines	ì	1	1	1	+	-	-	1	1	1	1	1	1	1	1	1	i	1	1	1	1	1	1	÷
6, Hernia	1	1	1	GI.	1	:	-	1	-		1	-	1	1	1	1		-	1	1	1	i	ì	*
7. Obstruction of Bowels	1		1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	-	-	-

TABLE XVI.—Continued.—Causes of Death, Classified.

		1.	1.	į.				ĺ.		ĺ		8	Counties,—1882		<b>2</b>	.		ľ	1	- 1					1.	
BES OF DEATH,-1862.	John O.	Hillsdale.	Houghton.	Нигоп	Ingham.	Ionia	Toscor	Isabella.	Jackson.	Kalamakoo.	Kalkaska.	Kent	Кеwеепаw.	Lake.	Lapeer,	Leclanaw.	Lenawee.	Livingston.	Mackinse.	Macomb.	Manistec.	Manitou.	.элзапрта <b>М</b>	Mason.	Mecosta.	Menominee.
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Disease	1	4	:	1	91	7	1	1	49	1	1	5	50	1			•	41	1	1	1	4	1	1	01	1
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-ORDER 5. Urinary Organs	-04	11	-	- !	7	90	1		19	4	1	11	90	1	00		13	00	1	-	-	1	1	1	40	- 1
1. Mephritia	1	1	1	1	-	1	-	1	1	*	1		-	1	1		1	i	i	T	1	1	1	1	1	1
2. Lechuria	-	1	1	i	1	1	;	1	1	1	i	1	1	1	1	1	i	I	i	1	İ	1	-	1	-	1
3. Bright's Disease of Kidneys	G4	9	1	1	*	-	1	1	п	60	i	90	60	1	*	1	00	-	1	-	Ħ	1	-	1	90	i
4. Diabetes	1	08	1	1	O.	-	i	1	01	1	1	1	1	1	60	1	-	i	i	T	İ	-	1	- [	1	1
8. Calculus (Gravel, etc.)	i	1	-1	:	1	1	1	-	1	.1	1	1	1	1	1	1	1	-	i	1	1	1	1	1	1	i
6. Cystitis	1	1	1	1	1	1	1	1	1	1	1	1	1	-	1	1	1	i	1	1	i	1	1	1	1	î
7. Kidney Disease		00	-			-			-	-		-			-		-		_	-		-			-	1

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M. Disease of Uterus	:	- :	į	- 1	-	1	-,	Ī	1	i	- 7	+	÷		:	-	+	-	1	- 1		- 1			-
& Hydrocele	1	1	- [	- 1	1	1	_	İ	1	1	7	:	÷	_!		- !	1	- [	1	1	4	1			
IIIORDER 7. Organs of Locomotion	1	9	т.	-	1	1		Ť	1	i	- 4	+	÷	-	- 1	-	- !	1	1	1	-	-	- 1		100
1. Arthritis	1		3	1	1	1		i	:	1		:			:	1	!	1	İ	1		:	- 1	- 1	
2. Joint Diseases	- [	1	1	-1	1	1			1	Ť	-	- 1	÷	_	:	_	- !	1	1	i		- 1	- 5		:
IIIORDER 8. Integumentary System.	¢,	1	0,	1	01	1	_	_	01	-	- 4	01	- 1	_	1	į	00	į	100	=		1	-	-	- 12
1. Phlegmon	1	Ť	;	1	į	İ			.:	-		-	-	**	- !	1	_!	1	-	1		-		_	:
2. Ulcers	1	i	-	- 1	1	i	- 1		-	i		-	-	-	:	:	:	1	:	-	÷	;			
3. Skin Disease	01	1	-	1	63	1			7	1		1	-	_	- 1	1	00	1	29	i	1	-			-
CLASS IV.—DEVELOPMENTAL DIS	16	58	55	81	31	56	-	00	12	98	90	15	81	88		49	8	10	89	27	60	00	-	-	oc
IV ORDER 1. Dev. Dis. of Children.	00	00	133	13	14	11	Ŀ	20	16	10	7	25	50	21	-	п	=	O1	17	9	-	22	10	Q1	65
1. Still-born	00	9	10	=	7	10	Ŋ	50	10	6	7	16 1	120	24	*	10	6	1	=	12	-	56	10	01	01
Infantile	- 1	=	24	1	1	i		1	00	1	1.6	*		_	1		;	01	1	1		-	,	_	-
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3. Cyanosis	:	;	1		i	1	 	•	1	1		1	:	-	1	1	- [	i	1	1		:	4		:
4. Spina Blfida	1	- ;	H	i	- 1	i		-1	-	1	1	1		:		1	1	i	•			÷			:
5. Other Malformations	-	- ;	1	1	į	1		À	85	-	-	1		1			1	i	1	:		-			
6. Teething	- 1		-	-	i	-	÷	1	1	- 1		69	_	4		-	61	1	O)	7		*			-
7. Injury at Birth	1	- 1	:	1	:		1	1	1	1		1				:	1	i	-	:					
IV ORDER 2. Dev. Dis. of Women	-	O.	99	00	9	7	-	-	4	9		1 2	-	91	-	+	4	61	ig	9		10	-	_	;
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Turn of Life	1		1	1	1	1	1	I	+	1		1		1	100	1	1	1		1	- (			- 1	
Child birth	H	01	00	01	9	10	-	н	4	9		9		04	-	00	4	94	*	9		IQ.	٠		_;
2. Abortion	1	1	1	-	1	-	i	1	1	1		1		1	_	-	1	1	0	1	-	-			à
Hearing Homometers		Ē																	-	_	_	_	_		

TABLE XVII.—Continued.—Specified Causes of Death.

					Mo	LX	ONTHS, 1882.	88	çi							Ę,	YEARS.							4	AGES IN PERIODS OF YEARS1882.	<b>2</b>	Z.	H	00	8	×	E T	ا •	88	o.i		
SEX.	January.	February.	Матећ.	MrdA	May.	June.	.Vint.	August.	September.	October.	November.	December.	Гикпоми.	1885	1881.	1880.	.6781	.8781	,7781	CAUSES OF DEATH.	S OF TH.	Under 5.	£ to 10.		10 to 15.	20 to 25.	25 to 30.	30 to 32.	35 to 40.	40 to 45.	45 to 50.	.50 to 55.	.00 to 65. .60 to 65.	.07 01 65	70 to 75.	75 to 80.	Ho and over.
Females	- 1	1	- 4	i	- 1	:	03	F	-	- 1	:	- ;	_ 1	6.3	29				61	3 Debility, Nervous	vous	1	1	- 1		- 1		1	-1	-		-	-	-		- 1	2.1
Total	7	10	17		9 15	14	81	55	88	27	11	13	53	191	666	148	139	123		150 Debility.		104			- 1	-	- ;	G1	43	-	*	00	5 13	12	12	15	00
Males	60	20	6	-	90	9	13	17	18	t-	10	12		115	121	88	88		89	88		58			- ;	-	_ :	- 1	1	61	-	-	3 12	00	2	10	12
Females	4	10	10	7	7	90	-	**	10	NO.	7	1-	80	76	101	63	20	22		29		46	:	- 1		- ;	- 1	64	7	01	00	01	01	4	10	10	00
Males		- 1	!	i	T	ï	- 1	1	91	- 1	-	1	1		**	13	9		00	1 Delirium Tremens.	mens	i	- 1	1	-1	- ;	-	01	- 1	1	-	-	-	-	·	- 3	:
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Females	-	7	64		91	-	-1	1	99	00	-	Q1	1	19	13	-	9		=	6		1		09	5 3	_	-	- 1	93	1	- 1	3	-	61	7	01	1
Total		1	-	_	1	. 1	- 1	64	4	H	- 1		T	10	21	7	A	#	01	21 Diarrhea, Chronic	onic	01	!		- 1	- 1	04	-	- ;	:	01	-	=	-	1	- 1	-
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Total	-	- 1	10	-	10	15	23	2	8	22	=	9	1	249	480	986	212	161		260 Diarrhea	-	225		60	+	C4	1	- 7		.1	-	- 1	51	9	- 1	- 1	-
Males	-	1	*	-	00	0	98	28	68	13	1-	60	- 1	139	275	171	120	81		041	-	123		29	- 1	_	-	-1	-	:	H	+	01	00	;	- 1	4
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Total 121 124 118 115 96	121	191	138	E	96	16	94 85 90 94 132 192 150	00	-	00	60	150		5 1416 9063 1549 1473	9000	15.69	1470	200		509 Dinhtharla		3	618 471 917 74	0.1	è	1			0			-					

Males	19	00	22	29/20	0105	196	97 77	9 63	8	88	91	1120	102011120	75	7111	396		200 Diphtheria	319 210 87 33 10	3 1 2 2	Applied the	6
Femalos	9	7	13	56 46	689	6	46 48	8	108	8	00	746	1030	798	762	161	8		294 261 130 41 7	. 1 3		-
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Malos	1	1	1	1	+	;	1	1	1	1		1	1	-	1	1	1	Dropsy of Abdomen	1	1	1 1 1 1	1
Females	1	İ	1	+	+	ì	1	1	1	1		1	1	24	01	1	1	: :	:	1	1 1	:
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Females	- 1	i	1	1	-	1	1	04	1	-	- 1	*	01	0.9	94	4	1		1	1	1 1	1
Total	1	-	9	ia	10	00	00	60	-	95		32	15	75	37	47	53	53 Dropsy of Brain	28 2 1 1	1 1	:	1
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Total	1	-	i	-	1	-	1	1		-		65	8	00	9	4	10	10 Dropsy of Chest	1	1	1	- 1
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Males	04	90	05	н	20	03	m	4	01	90		38	45	35	38	7	89		1	1 6 7	1 7 5 6 3	01
Females	61	GI.	*	7	00	60	01	4	64	01	-	88	28	36	46	35	68		1 1	01 00 00	1 1 8 1 5 2	61
Males	1	i	1	:	1	-1	1	1	-	1		-	1	1	1	t	-	Dropsy of Kidneys		1	1	1
remales	1	1	1	1	-	1	1	1	1	1		1	-	1	-	-	1	:	1	1	1 1 1 1	1
Males	1	1	1	1	-	1	1	-	1	;		1	-	1	-	-	1	Dropsy of Limbs		1	1 1 1	1
Males	1	:	1	1	1	1	1	i	i	1		1	;	1	1	1	1	Dropsy of Liver		:		1
Females		1	1	1	1	1	1	i	1	4		1	1	1	1	j.	01		:	1	1 - 1 - 1	1
Males	1	1	1	1	1	1	1	1 1	1	-	_	1	1	-	1	1	1	Dropsy, Scarlatinal	1	1 1		1
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TABLE XVII.—Continued.—Specified Causes of Death.

	×	MONTHE		1882.						YEARS.	188.						AG	AGES IN PERIODS OF YEARS.—1882.	2	XX	ā o	0	5	EAR	Ţ	1887		
March.	April.	June.	July.	September.	October.	November.	December,	,2881	1881	.0881	-628t	.8781	.7781	CAUSES OF DEATH.	Under 5.	10 to 10.	10 10 20.	.62 01 02	25 to 30.	.68 03 08	32 to 40.	.06 of 64 45 to 50.	,66 ot 06	.00 of 55	.60 to 65.	1 70 to 75.	75 to 80.	30 and over.
	1		1	1	-1	1	1		-		1	i	1	Dropsy, Scarlatinal	1	-	- :			- ;	-	- 1	- 1	30	1	:	- 1	-:
= 1	1	1		1	1	1	1	i	1	1	1	1	-	Dropsy of Spine	1	÷	1.		1	1	-	1		1	3	-	1	4
1	-1	i	-	:	- 1	+	-	1	į	1	1	1	99	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1	1	1	-	1	1	;		- 5	1	7	+	:	
+	1	:	-	1	- (	i	1	i	-	1	1	1	1	Dropsy of Stomach	1	1	1		- 7	;	:	1	- 1	1	:	1	1	4
1	1	i	-	1	- 1	1	,	1	1	1	i	i	-	Dropsy, Uterine	1	-	*	- 1	1	- (	1	- :	- 4	- 1	1	1	4	- 1
Total 11 27 26	18 32	2 30 25	25 32	2 20	30	36	28	317	585	27.1	360	540	125	Dropsy (Unspecified)	19	17	8	6 12	10	10	-	16 16	12	秀	83	35 34	88	=
=	11	6 12 11 11 17 14 13		15 11	22	41	65	191	135	129	108	#1	98		13	123	E0.	9	01	*	7	27	7	17	50	16 19	12	9
5 15 15	7 15	5 16 12	12 17	7 9	18	101	12	156	147	142	152	135	120		9	-	NO.	9 9	90	9	1-	80	00	17	120	10 12	22	10
	- 1	10	9	60	01	01	-	88	3 17	36	17	35	16	Drowning, Accidental	98	4	4	5 4	- (	60	-				Ť		-	. 1
H	1	10	+	93	63	03	-	83	16	30	17	17	15		01	00	4	20	1	00	н	01	4	÷	;	-	1 1	1
-	;	1	01	1	1	1	-	20	1	9	. 1	00	1		1	=	-	-		1	-	- 1	- 1	1	7	:	- }	- 1
63	13 10	13 10 24 18	18	1 7	=	+	20	1113	108	143	105	92	87	Drowning	111	171	17 19	15	9	9	1	10	0.5	- ;	04	-	-	- :
1 00	10 8	8 23 18	18 10	1	=	00	01	101	36	118	16	88	1		7	171	13 11	15	9	9	1-	4	-	- 1	01	-	1	
1 1	60	=		-	1	-		8	133	25	11	6	10	***	*	1	-	:	- 1	1	+	+	-	- 1	:	1	- 1	
1	- 5	1	-	1	-1	1	1	_	1	1		1	1	***************************************	1	1	1	- 1	÷	- 1	- :	-	-	- 1	1	- :	4	:
1	1	Ť	1	1	1	1	-	- 00	1	00	-	-	Q1	Dysentery, Chronic	1	+	-	- !	н	-;	:	-	- 1	-;	=	1	:	:
1	+	İ	+	-	- 1	+		1	1	04	н	;	00		1	÷	- :	-1	1	:	-	-:	_ 1	- 1	1	- 1	:	- )
9	C2	9	13 19	555	123	1	+	93	270	155	133	157	216	Dysontery	73	00	1	- 1	- 1	-	-	21		-	-	1	:	G,
4	-	91	10 1	15	19	1	·	53	140	20	99	36	106		- 40	=	1	_ 1	1	-	÷		1	-	-	1	- 1	Ġ\$
61	-	*	10	37	00	+		9	130	7.1	49	22	110		220	-	1	_	-1	:		=	- ;	- (		-		-:
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e Die of Kannyatory Comme	-				Š	ż	Ē	į.	7		7	Ĩ	E	E		Ī		4			ř		1	į	
Supplied to the supplied of the supplied to	00	77	88	7	31	G	98	10	00	3 10	1	71	31	-	)-	68	21	21	17	26	17	17 21	61	149	œ
4. Diseases of Digestive Organs.	21	15	=	- F	2	-	8	9		.02	-	Н	13	01		98	কা	91	00	15	10	8	18	8	m
5. Discases of Urinary Organs	1	13	01	,	1-	;	10	**		-	*	Ţ	60	- 6	0.	13	01	3.	10	ю	1-	4 10	1-	55	-01
6. Diseases of Generative Organs	1	1	1		1	1	-	1	1	1		2	1	1	1.94	1		-	-	1	-	4.	1		10
7. Dis. of Organs of Locomotion.	1	1	ı į		-	1	-		+	7	4	- 5	1	ŧ	1	1	- 1		+	1		7	1	1	:
R. Dis. of Integumentary System	1	24	-	7	1	-	01	_	- 5	-		-1	1	- 1	4	10	-	1	-	-51			00	17	-
IV1. Developmental Dis. of Child'n	15	83	2	- 1	81	- 18	52	6	01	0	-	- t	38	7	1	8	17	99	21	23	8	21 01	18	168	
2. Developmental Dis. of Women	-	0	4	7	6	90	00	00	7	91	-	1	10	21		7	4	-	00	10	4		9	30	1
3. Developm'l Dis. of Old People	1	27	90	. *	9	51	15	55	91	10	-	1	11	40)		3.4	133	-	1-	18	15,1	11 7	57	110	100
4. Discases of Nutrition	1	9	1		es.	-	-	1	:	-		2	7	· L	-	38	10	7	-	6	-	-	99	38	OF.
V1. Accident or Negligenco	-	9	16	-	11	10	61	60	H	01		-2	16	1		123	9	-	99	22	77	9	9	40	10
2. Battle	1	1	1	- 6	1	1	1	1	1	- 1	- 4	1	1	-		;	- 1	1	1	1	- 1		- 2	4	:
3. Homicido	1	1	1		1	+	-	1	1	1	- 1		1			1	- 1	-	+		1		-:		-
4. Sulcido	1	01	- 1	-	1	91	-	1	1	*			-	- 1		00	-	1	-	1	-	51	1		1-
5. Execution	1	1	1	- 4	1	1	-		- 1	H			1	-		ï	1	+	1		1	-	-	i	:
6. Violent Deaths	1	00	1		-	1	00	01	.; ea	-		15	10			13	9	-	90	21	-	-	21	55	n
CLASS I -ZYMOTIC	H	7.4	81	-	105	17	27	1 88	11 10	19	^1	10	66	100	-	727	- 2	2	11 12	121	18 61	69	70	25	98
IOrder 1. Minsmatic	11	7.4	81	-	101	17	20	28	11 10	4	43	13	66	9	-9	556	=	75	12	61	8 09	8	8	811	36
1. Small-pox	1	1	1		1	21	:	1	1	1			;	20		10	1	_{-	1	21	- 1	_	13.	13	1
2. Mensics	01	01	9	-	00	-	79	-	1	1	-		9	- 12	-	20	H	-	91	02	-	_	-	30	1
3. Scarlatina	1	10	13	-	200	6	17	4	- 1	9	_		38			25	10	17	91	0	-	100	2	149	1
4. Diphtheria	*	53	14		21	-	61	77	30	83			36	-	-	65	10	10	9	22	7 33	20	п	258	
5. Quinsy	1	-	H	~	-	+	1	1	:	1			1 3		-	1	-:	1	1	- 1	1		7		-
6. Croup	1	10	50	-	*	00	00	=	H	21			•	_	-	18	30	_	H	90	-	7	4	35	24
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TABLE XVI.—Continued.—Causes of Death, Classified.

												S	COUNTIES,—1832	E8,-	188						İ					ĺ
CAUSES OF DEATH,—1882.	Missaukee.	Monroe.	Montealm.	Montmor'ncy.	Мазкеgon.	Newsygo.	Oakland.	Осеапа.	Ogemew.	Ontonagon.	Osceola.	Oscoda.	Otsego.	Ottawa,	Presque Isle.	Roscommon	Saginaw.	Sanilac.	Schoolcraft.	Shinwaseec.	St. Clair.	St. Joseph.	Tuscola.	Van Buren.	Washtenaw.	Wayne.
7. Whooping cough	- 1	1	10	:	00	-	F	1		H	1	- 1	*	1	1	1	G	;	1	1	-	+	-	1	1	00
Typhoid Fever	0	7	on	1	10	7	90	4	1	*	20	1	-	90	:	-	91	9	- ;	9	10	7	-0	00	=	45
3. Typhus Fever	- 1	1	1	1	H		i	i	1	i	i	1	1	at.	i	1	1	+	- ;	+	-	- 1	:	1	-	-
Typho-malarial Fever	- 1	:	-1	1	Ī		i	i	i	i	1	i	1	i	i	1	O1	E4	1	:	01	1	9	69		- 1
9. Erysipelas	i	9	01	1	+	1	4	-	- 1	-	1	- [	1	4	1	1	*	01	i	01	67	01	10	10	9	5
10. Puerperal Fever	1	1	- 1	1	1		01	H	i	1	1	1	:	10	1	1	93	01	i	-		7	+	-	M	*
11. Carbuncle	1	1	1	1	T	1	H	1	i	1	1	1	1	1	;	1	1	1	1	1	-1	1	1	÷	1	1
12. Influenza	1	:	1	i	**	-	i	i	î	1	i	i	-	1	1	1	-	1	-;	-	÷	- 1	1	1	1	1
13. Dysentery	I		1	1	Ç1	Q1	i	1	1	-	-	1	01	9	24	1	40	1	1	-	+	G1	1	1	201	9
11. Diarrhea	-	00	-	1	90	9	C1	1	i	- [	1	1	1	00	1	1	88	00	;	-	10	-	i	1	-	3
15. Cholera Infantum		23	13	1	00	20	4	=	01	-	01	1	1	10	1	-	86	-	1	1-	00	10	=	27	=	ţ.
( Cholera Morbus	1	1	1	1	-	1	-	1		1	1	1	1	-	1	;	63	-	-	;	1	-;	•	7	02	00
Cholera		1	-	-		1	-	1	i		1	i	i	1	1	1	1	1	+		+		:	-	-	00
17. Ague	60	0.4	90	1	*	1	7	-	i	1	92	-	1	22	Ť	1	10	23	-	-	61	10	00	(7)	93	3
18. Remittent Fever		*	00	-	20		gt.	7	1	61	1	1	1	+	+	1	9	-	- 1	1	7	22	-	H	(D)	19
19. Rheumatism		1	01	1	1	1	21	1	i	1	1	i	1	-	1	1	-	1	:	-	-01	92	~	00	21	18
20. Leprosy		1	1	-	1	1	1	Ì	1	1	i	İ	1	1	1	i	i	1	1	1	1		÷	+	1	1
ORDER 2 Enthetic		1	1	i	1	1	П	i	1	1	1	1	1	1	1	1	1	1	-	1	0	÷	-	+	-	7
1. Syphilis	- ×	- 1	1	i	1	1	-	i	Ť	1	1	1	1	1	1	1	1	1	-	1	1	1	÷	-	1	7
3 Stricture of Urethra	-	1	I	i	1	1	1	1	Ť	i	Ī	1	1	1	1	1	1	1	1	1	1	40	÷	1		1
Stricture	7		1	1			Ī	Ī		_	_		_	7	ĺ		-	-	7	-	-	ì		-	-	

(coholulam)	3, Hydrophobia	or its						1	11	T	1		1 1	-		1		_	1	-	1	i	1	1	į.	-
Coholism    Coho	4. Glanders.			_	_		_		_	-	-		_	_				*	1	1	1	1		1	1	:
Coholism    Coho	IORDER 3. Dietic			1	+	+			1	1	÷	+	- :		1	_	1		1	.51	i	;		-	9	:
Cotholism   Coth	l. Privation			1	1				1	1	+	:		1	1	1	!				1	:		1	1	:
1   1   1   1   1   1   1   1   1   1	Purpura	Ť	•	_	+	:		,	i	1	-1	1		- 1	1		1		1	*	- 1	1	-	-	-	:
Coholism    Coho	2. Rachitis		1	1	-				1	+	+	:	4	1	1	-	1		1	1	1	:		1	-	:
Coholism)   Coho	Scurvy	÷		1	+				ì	1	+		-	1	_		1			1	;	- 1		1	1	:
1	3. Delirium Tremens (Alcoholism)	Ċ	1	1	1	1		į	!	1	+	÷	1	1	1		1	- 1	1	1	4	- 1		1	1	:
1	4. Intemperance			1	+	÷	÷		1	Ť	+		1	1	1		4	4	1	110	;	1	- 1	1	40	:
1	5. Oplum Eating	4	1	1	+	-			Ť	Ť	1	- 3	1	1	1	1	1	1	1	1.7	1	- 1		1	1	<u>:</u>
1	IORDER 4. Parasitic	Ť,		1	1		- 1			1	1		1	1	_ !	- !	-	- 1	1	Des.	- 1	- 14		1	1	:
1	l. Thrush		•	1	+	-	- 1		•	1		-	1	1		•		,	:	18.	1	1		1	1	:
1	2. Worms			_	1	- (	•	Ė		1	Í	- 1	1	1	-	1	-		1		1	-		1		:
8	3. Disease of Scalp	÷		+	1	÷			-	1	1		-	1	1	- !	1		1		:	1			1	:
86	CLASS II.—CONSTITUTIONAL		15						_	01	90	_	40					24	51	7.4	25	83	33	8	60	<b>3</b> C
1 1 2 2 1 2 2 2 1 2 2 2 1 2	IIORDER 1. Diathetic		×	0	-					i	1								9	33	11	00	10	81	90	*
8	1. Gout				+	:	i			Ť	1				. !	- 1	1		ij		1	:	1	1	1	:
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80 30 \$5 10 40 15 \$8 3 87 13 2 21 49 40 24 25 47 14 14 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4. Noma (Canker)	,	1	1	1		- 1		1	1							69	·		00	:	-	Ŧ	18	1	7
1	5. Mortification		-	1	+	-	1	_		:	. +					1	1		1	+0 ÷	:	4	1	-	1	:
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9	1. Serofula		-	- 1			4		1	1		10	-			1	1	Ţ	1	1	-	-	1	1	-	_:
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TABLE XVI.—Continen.—Comes of Double, Classified.

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Wayne.	273	94	41	830	262	36	=	40	4	1	91	10	10	13	10	1	į	3	:	
Wantenaw	9	- }	:	119	48	1-	9	15	-	:	54	1	30	10	H	1	1	-	7	-
Van Buren.	23	1	1	17	17	21	28	90	1	1	:	-	1	*	1	H	1	1	1	4
Tuscola.	Ħ	i	1	22	57	10	-	*	Ť	1	1	1	9	20	69	21		Α.		
St. Joseph.	28	1	1	88	8	24	+	=	i	1	;	i	ĢĪ.	10	**	93	1	:	01	
St. Clair	9	1	i	107	E9	1	-	0	Î	1	1	1	7	7	-	69	÷	-	-	21
Shiawassec.	8	1	1	28	12	40	1	0	·	:	i	:	-	10	1		,		,	+
Schooleraft.	.04	1	1	100	00			- 4			4.	4	-	28	16	14			- *	
Sanitac	13	1	i	4	86	7	91	69	1	1	-	1	Y-	9	-	24	1	1	1	ij.
Saginaw,	V	-	20	27.5	101	21	92	pp	i	i	-	55	8	13	24	*	i	-	1	14
Roscommon.	1	1	1	17	65	1	-	1	-	Ť	1	1	-	:	1	1	i	1	1	
Presque Isle.	20		1.	*	-	-	1.41	P	*	1		11				- 1		*	1	7
Ottawa.	13	1	1	107	43	7	-	9	:	1	1	-	10	*	1	-	1	-	1	
'oSosio'	24	1	1	7	-	:	i	-	1	i	1	i	1	:	Ė	1	i	i	Ť	-
alemen	1	1	1	20	-	1	ř	ij.	i	ì	-	1	ì	i	i	*	1	1	Ť	_
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Ontonagon.	-	**	1	30	154	ž	:	1	1	1	1	1	40	1		1	1		1	
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Occubia	2	1	1	R	ş	9	-	80	1			-	-	69			- 1		-	
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varency.	36	1	Ĭ	ñ	=	*	1	2	1000	i	2	3	Ç6	84	i	-	Ť	Ť	-	7
Mushrges.	8	3	24	E	28	92	1	10	1	7	7	1	1	=	;	1	i	Ì		
Montmorfact.	1	1	1	2 2	3	1	Ī	2	1	ř	1	Ť	*	1	1	Ī	Î	Ť	-	
Montesia	8	1	1	8	ß	et.		199	1	3	DR.	:	29	*			;	1		00
Menter	8	200	100	E.	33	7	24	R		¥ 6.9	-	2	*	20	=	Ç0	1	1	1	3
Arthuselk	1	100	1	*	8		4111	20	1	1	7111	ž	27.5	-	1	i	1	1	i	=
Feet	MRES.	and a	********	1 1000	W		0 2		Street	******	********	****	****	CONTR.	********		********	***************************************	M	-
A OF DEATH, peer	Seampt'n of Langes.			MONAGES.	Otto Myntam	***************************************		••••••	***************************************	***************************************			Done winters	Henin Istanaer.	Orepay of Brain	Aplasi Favor	Apotted Fever	Month gibto	Meningille, Corobro-spinsi	Koningitia, Spinal

18. Frightened											_								1						
IIORDER 2. Organs of Girculatio	1	1	1	1	:	i	,		1	1	1	1	30		1		1	T	1	1	1	1	⊇£.	1	1
•	по	9	00	i	10	- 10	88	60	-	-	.;	- 1	1		- 1	55	*	-	11	15	21	11	25	19	7.9
1. Pericarditis	1	80	İ	1	;		4	_	1	1	1	1	-	0.0	1	60	-	1	01	-	Q1	1	6.5	6.0	59
2. Aneurism	1	1	-	1	4				+	1	1	1	1	1	1	1	:	1	1	1	1	1		1	64
3 Heart Disease	1	00	10	1	10	4	18	00	-	-	93	-	=	1.5	1	31	00	1	6	=	10	=	10	16	22
4. Emboli	1	1	1	i	1	i	1		1	1	ļ	1	1	1.6	1	1	1	1	1	1	1	1	- 10	1	1
IIORDER 3. Respiratory Organs.	60	15	88	- 1	81	6	26 16		60	2	10	01	31	-	1	2	21	64	17	26	17	17	75	2	149
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2. Laryngitis	1	1	1	1	1	1	:		1	_	1	1	1	1.5	i	-	;	1	-	4	1	;	*	1	- 1
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4. Pleurisy	1	1	1	1	1		60	-	1	_	-	1		1	1	1	-	-	1	1	1	1	-		-
5. Pneumonia	63	7	36	í	77	6 3	17		63	00	-	01	8	1	1	23	æ	-	13	50	15	12	16	12	78
6. Asthma	1	91	-	i	7		-	_	1	1	1	1	1	1	1	00	1	1	-	1	1	1		-	27
7. Lung Disease	1	0	*	i	1		60	-	1	_	-	1	*	-	1	15	00	1	503	4	н	60	9	63	64
8. Catarrh	1	1	-	1	1		-		1	1	1	1	40	-10	1	1	-1	1	T	1	1	1	,	1	CH .
IIORDER 4. Digestive Organs	01	15	=		10	94	83	9	99		00	-	139	Q1	1	8	69	Ċ4	63	31	16	12	90	18	98
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2. Enteritis	-:	-	9	i	00		00	-	1	_	04		7	QE	1	18	69	-	-	13	9	2	O1	-	8
3. Peritonitis	1	1	1	1	1		9		i	1					1	94	1	1	-	01	-		-	-	08
4. Ascites	1	:	1	:	1	i	1		1	1					1	-	1	1	1	1		1		1	- ;
5. Ulceration of Intestines	1	1	1	;	г			_	!	4			1	-	1	1	- 1	1	1	-		П		1	:
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7. Obstruction of Bowels	1	I	İ	į	1	-	1	_	1	1	1		- 1	_	1	1	:	1	1	1				i	1

TABLE XVI.—Continued.—Causes of Death, Classified.

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Tuscola.	1	1	1	-	1	1	1	1	4	1	1	1	4	-	1	Ĭ	00	1	1	
St. Joseph.		1	1	Ol.	1	1	1	1	9	1	1	1	-1-	1	1	1	00	1	-	00
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ковсошшоп.	1	1	i	1	Ť	1	÷	1	1	i	1	+	i	1	1	1	1	i	1	-
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Males		1	1	- 1	1	;	1	:	1	i	+	1	-		ŀ	1	Hea	Heart, Abscoss of	- B	4	- 1	-5	-1	1	1	1	:	-1	1	-:	1	;	11:
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Males 1 1 1 1 1 4 3 3 5 2		
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Males 1 1 1 1 1 4 9 6 10 7	,	2
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Males	1 Hip, Ulceration of	
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TABLE XVII.—Continued.—Specified Causes of Death.

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Males		7	- 1	- 1	;	1	1	- 1	-		61	1		1	_	:	Emphysema	1	;	:	4	- 1	1	30	-		1	1	-	-(-	:
Females	1.6	- X	1	:	1	1	- 1	- 1	1		1		1		-	1		1	1	1	- 1	÷	1			- 1	1	1	- 1	- 1	:
Males	2	- 1	-31		1	1	1	:		-1		-	1			:	Endocarditis	1	Ì	1	1	÷	1	-	÷		-1	1.7	1		:
Females	1	- 42		1	÷	-1	1	- 1	1	1	- 1		-	-	- 1	1	*	1	- 1	-:	1	•	+		*		:	-	1	- 0	:
Total	NO.	91	99	9	00	90	4	91	20		18	63	7	23	31	35 E	35 Epilepsy	10	01	-	10	8	10 3	4	г	-	r	03	6,1		:
Males	60	4		01	60	01	-	01	10	_	25 4	11 1	12		16	18		G1	01	09		*	5	69	-	-	;	-	1	,	:
Females	63	7	60	+	1	4	.00	J	60		64	81	23 21		12	17		60	!	-	21	4	10	O.	-		г	-	61		:
Males	1.5	-	-1		1	1	1	- 1		-	1	_	1	-		1 E	Eruption of Back	1	1	1	1	- 7	+	- X	1	_,	1	1	- 1	*	:
Males		7	- 1	1	1	1	- 0	- 1	- ;	i		1	-	-		1	Erysipelas, Bone.	1	1	1	1	-	1	1	:		1	1	-		:
Males	15	- 1	- 1	1	1	- 1	-	- 1		-	-	-	-	1	17	=	Erysipelas of Bowels	1	i	1	1	- 1	- 1		- 4	- Y	1	1	1	36	:
Males	1	1.	1	-	1	1	7	1	1	1		-		1			Erysipelas of Head	i	i	1	T	+	+		1	1.0	11	-	- :		:
Females		- 4	-		i	:	3	- 1	3	i	-			1		1		1	1	:	1		-1	1	1		D	1	-	-4	:
Males	9	1	- (	. 11	:	:	1	- 3	1	1	-	69		1		:	Erysipclas, Phlegmonous	1	1	-	:		÷		- 1		1	- 1	:	-	:
Males	- 1-	- 1	1		1	-		9	- 1	-	-	н		1	_	1	Erysipelas of Stomach	1	Ì	+	:	÷	+	_X	÷		1	1	+		:
Females			- 1	- 1	1	-	.,4	1	:	-		- 1	:		-	1 E	Erysipelas of Throat	1	1	1	1	- 1	-	- 0	1	-	1	- 1	1		:
Fotal	10	10	8	9	10	9	4	10	9		88		84 91		72	88 E	68 Erysipelas	18	01	10	61	6.5	2	9	9	60	1-	4	00	-	ಣ
Males	00	1 2	61	40	**	*	65	80	10		45 48		7		37	31		10	-	-	-	-	01	.10	60	60	4	60	4	-	61
emales	GN.	4	4	10	9	69	-	G3	1 4	33	7 33		37 47		99	37	(3)	90	F	4	-	61	00	-	60	63	65	н	4	•	-
Fotal	H	61	*	H	-	01	80	99	0.0	83			1	-		:	Exhaustion	13	- 1	1	- !	,	1	01	-	_	0	02	-	_	<u>:</u>
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Males	3	00	do	10	-	-	00	-	10	8	19	16	18	2	30	:	*	14 9	64	1	-	. 1	;	1	1	*	-	-	99	
Females	1	1 1	н	-	01	1	-	1	1	6	26	16	38	33	8		*	8 1	04	+	7	1	1	1	*	1	1	1	;	
Total	9	6 5	14	9	10	=	18	O.	69	88	102	15	10	5	7	Fever,	Malarial	99 17 4	6	12	65	4.	69	=	01	60	-	01	-	61
Males	:	G#	96	89	1-	9	2	19	61	48	45	18	4	-	4		"	ппп	н	90	10	1	1	1	68	-	7	1	H	31
Females	1 8	7	10	60	02	40	=	60	:	20	57	13	9	*	60	:	*	11 6 3	00	-#	3 1	03	01	H	1	4	-	-	3	•
Females	1	1	1	-	1	1	1	- ;		1	1	1	1	1	1	Ferer,	Fever, Menstrual	1	1	+	1	:	- 1	:	1	1	- 7	- 1		•
Females	1	-	1	1	-1	:	H	+	1	ON.	25	1	-	1	1	Fever, Milk.	Milk	7	1	1	+	1	1	1	1	0	- ;	- }	- 1	•
Males	1	1	1	1	1	17	1	+	1	1	O.f	-	- }	1	1	Fover,	Mountain	- 1	i	+	- 1	1		1	1	+	1	- £	1	•
Males	-	1	1	1	1	1	1	+	-	1	1	10	03	1	1	Fever,	Nervous	:	i	1	1	1	1	÷	1	- 1	1	1	7	÷
Females		1	1	:	Н	1	- 3	1	1	63	-	99	00	1	00	:	,,	1	H	+	-	:	-	1	1	1	-1	1		$\div$
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Total		01	+	7	-	7	- 3-	-	1	10	10	6	4	9	7	Fever,	Rheumatic		i	-	1 1	7	- 1	1	1	-	1	-	1	1
Males	T	-	H	-	1		1	+	1	00	7	00	60	61	04	:	***	61	:	1	-	7.	1.	1	1	1	:	1	1	1
Femalos	:	-	1	1	1	1	-:	=	;	7	90	9	-	4	01	=		G1	1	1	-	-	1	- 1	=	-	1	-	1	4
Total	6 9 1	10	12 10	9 0	10	00	-	00	-	26	136	11	47	33	50	Fever	Spinal	47 20 5	00	-	63	*	23	-	1	-	-		1	1
Malos	9 8	00	0	5 5	4	17	<b>C</b> )	00	-1	20	27	35	13	8	55	3	2	27 10 9	èè	-01	-	-	-	1	+	-	-	1	1	1
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Males	1		- 1	-	1	- 4	-	:	1	- 1	10	1	1	1	29	Fever,	Spotted	1	1	1	- 1	- 1	1	1	1		- 1		1	1
Females	-	-,-	1	1	- 1	1	-	+	1	04	*	1	:	1	91	*		1	1	1	:	1	1	÷	1	- 1	- ;	7	1	4
Total 31 34 30 18 35 30	1 34 3	918	35.3	0 20	27	53	516	53 40	01	163	884	513	202	330	446	Fever,	Typhoid	36 33 54	12 9	90 32	55	23	10	101	10 13	7	99	10	99	63
Males 19 20 17 11 19 15	05 6	111	CI	9	23	98	51.8	36 28	69	696	167	582	190	176	162	,	2	24 18 22	20 6	66 20	81	6	00	13	100	6 8	01	00	-	9

TABLE XVII.—Exhibiting, by Sex, by Months, by Specified Causes, and by Ages in Periods of Years, the Number of Persons Returned as having Died in Michigan during the Year ending December 31, 1882; also, by Sex, and by Specified Causes, the Number of Persons Returned as having Died during each of the Years 1877 to 1882, inclusive (Still-births included).

		Unknown.	268	151	11	00
		SO and over.	639	348	165	1
		72 to 80	501	295	206	1
		70 to 75.	635	367	368	1
	ا يا	.07 os 58	588	352	236	- (
	Ages in Periods of Traes.—1882	.58 of 08	587	341	246	1
		.00 ot 55	470	263	207	1
		.66 to 55.	474	265	209	1
		45 to 50.	444	242	202	
	1 4	40 to 45.	488	245	243	1
		32 to 40.	506	252	254	
	A	30 to 35.	518	246	272	1
		25 to 30.	615	287	328	1
	₽ 0	20 to 25.	817	416	400	-
		J5 to 20.	665	283	382	1
		10 to 12.	657	306	351	1
	1	2 to 10.	1178	602	576	1
<b>6</b> 0		Under 5.	6375	3452	2879	7
AUSE		.8781	99251	6632	6082	200
LL C.		'648T	14407	7522	6848	57
W W	YEARS.	1880.	16102	8645	7410	47
FRC	Ä	1881	19238	8960	8910	65
DEATHS FROM ALL CAUSES.		1882,	16425 19	8713 10	1994	8
DE		Спкломп.		20	98	69
		ресеmber.	1570 78	835	727	00
		November.	1631	760	929	10
		Осторет	1498 1	789	200	60
		September	1545	827	714	4
	1882	August.	1453	776	673	*
	Можтив, 1882.	.yiut	1284	683	969	2
	Mox	.ounc	1264	681	581	G1
		May.	1480	792	683	10
		April.	1311	685	624	01
		March.	978 1171 879	715	654	253
		February,	1171	596	571	4
		Janualy.	978	554		-
		SEX.	Total	Males	Females 453	Unk

TABLE XVII.—CONTINUED.—Specified Causes of Death.

_				Mo	Моити	ē.	1882	oi						•	YEARS			-				4	AGES 1N	8 17		PERIODS	COD	8 08	*	KY	YEARS 1882.	-18	25		
wasmanl,	January.	Матећ.	April.	May.	June,	July	August.	September.	October,	November.	December,	1882.	,1881	1880	1879.	18781	1000	.7781	CAUSES OF DEATH.	Under 5.	,01 or d	10 to 15.	12 to 20,	1 30 10 32"	25 to 30.	.66 63 95.	35 to 40.	40 to 45.	1 45 to 50.	50 to 55.	60 to 65.	02 01 09 1	70 to 75.	.08 of 67	,1970 ban 08
Females	1	-	-:	-	-	09	-1	-	-	-	:		0	00	9	15	1	9	Abortion	1	- 1	- 1	Н	60	01	- :	01	-	- 1	+		- ;	- 4	1	- 1
Males	- 1	1	4	- 1		- 1	-	+		-	-	1	1	1	-	-	+	1	Abseess of Abdomen	1	- ;	- :	;	:	- 1	i	1	-	+	- :		-1		1	- 1
Females	1	1	:	;	- ;	÷	÷	,	;	1	- :	1	-	-!	-1		7	1		1	- 1		- 1	-;			÷	÷	+	:	- :	- :	-1	- 1	-;
Females	1	- 1	:	+	- 2	- 1	+	_	- 1	1	- ;	_ ;	1	1	1			ì	Abseess of Arm	1	;	:	:	:	- ;	Ť	-	-	+	1		:	- 1	- 3	1
Total	- 1	- 1	-	-	-	- 1	1		- 1	-			7	-	1		03	1	Abscess of Back	-	- 1	Н	- 1	- 1		-	+	+	+	:	- 3		- :	- 1	- 1
Males	4	1	- 1	-1	1	÷	+	-	_	-	:		01	-	- 1	-		1		1	-1	-		:	-	i	1	1	÷	1	- 1	- 1	1	- 1	1
Females	1	3	н	-	i	7	:	1	_	1	- ;		64	-:	_		-	1		-	- 1	:	- (	:	:	H	$\dashv$	1	1	-	- 1	:	:	-:	- 1
Males	1	:	-1	1	:		- 1	- 1	4.	- 1	- 1	1	1	- 1	- !	1	1	1	Abscess of Bladder	1	- 1	:	- 1	- 1	1	i	÷	- 1	+	- :	- :	- 1	:	- 1	- 1
Malos	1	:	:	1	-	- 1	1	-:	- 1		- :	1		69	- 03	-	1	1	Abscess of Bowels	1	_1	- 1	- 1	1	÷	1	-:	+	- 1	+	- :	- 1	:	- 1	:
Females	1	;	:	- 1	1	,	-	-	-	-	-		4	1	-	-	- 1	+		1	:	- 1	- ;	- 1	:	-	-	-	÷	- ;	-	1	:	1	;
Total	1	1	00	1	-:	- 1	. :	- 1	-	-	- 1		9	10	-	00	-	-	Abscess of Brain	68	01	- 1	:	09	÷	-	;	+	1	1	:	:	- 1	1	1
Males	1	1	.04	1	- 1	- 1	-1	1	1	1	- 1		00	92	1	01		:		61	-	1	:	1	;	÷	-	1	- 1	- 1	:	:	-1	3.	+
Females	,	1	-	1	;	,	1	- 1		-	-1	2	60	09		-	- 1	-1		1	Н	- 1	1	09	i	:	:	:	1	1	- 1	- 1		:	- (
Males	*	1	:	:	1		_;	-:	- 1	- 1	_	1		-	1	-	-	1	Abscess of Ear.	1	1	-	1	- 1	÷	1		- 1	1	- 1		:	1	-	1
Males	_ (	1	1		-	1		1	-!			1	1			-	1		Abscess of Groin	1	:	- (	1	i	+	1	+	1	1	i	- ;	-1		1	1
Males		. 1	:	:	-		1	- 3	- 1	- 1			-	1	1	- !	-:	-	Abscess of Hand	-	1	- ;	i	:	÷	1	1	1	- 1	;	·	- 1	1	1	+
Females	1	-1	1	÷	1		4	- :	1	-:		1		-	- 1	1	-	- 1		-	-:	- 1	i.	- ;	1	;	1	+	-	- F	- ;	t		- 1	1
Males	- :	1	Ť	÷	+		Ţ,		- 1	- 1		1	1	1	1	1	-	1.4	Abscess of Head	1	- 1	;	:	:	1	+	1	-;	- :	- ;	- 1	- 1	. 1	1	1
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TABLE XVII.—CONTINUED
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				×	Monti	8	1882	엹				_			YEARS	. 8						4	VGE	E H	×	AGES IN PERIODS	IOI	80	OF YEARS1882	1 E	113	ī	200			
SEX.	January.	February.	March.	May	1 nane.	July.	'yenguy	September	1 Осторет.	November.	December.	Unknown,	1882,	.1881	1880	'628T	*8181	.7781	CAUSES OF DEATH.	Under 5.	5 to 10.	.GI of 0I	15 to 20,	. 20 to 25.	.05 01 52	.66 01 08	92 10 70	.64 of 04	.00 01 64	20 to 22	1 55 to 60.	.65 to 55.	1 70 to 75.	75 to 80.	SO and over.	Unknown,
Females	- 1	1	- 1	- 1	- 1	- ;	1	1	- ;	- 1	1	- :	:	1		н		-	Heart, Palpitation of	- 1	-:	- ;	_	;		- 1	- 1		:		-	- 1	1	- 1	- 1	
Total	Н.	-	00	- 1	- 1		1	-	- 1	60	69	1	15	98	27	1	13	60	Heart, Paralysis of	1	- 1	03	н	-	- 1	7	-	-	1	- :	-	00	64	_	94	- 1
Males	н	-1	00	59	:	-	- 1	-	- 1	00	- 3	- ;	11	17	0.3	10	00	93	, , ,	-	- 1	7	п	- 1	- 1	-	- 1	-	- :	-	н	69	04	- 1	O.	
Females	- (	1	1	01	- 1	- 1	- 1	- 1	:	- 1	63	- ;	4	6	6	6	4		, ,	- 1	_:	-	-1	-	- 1		-		-:	-	1	=	+	-	4	,
Males	1	:		:	-1	1	, t	- 1	- 1.	1	- 1	;	H	1	1	1	-	j	Heart, Rupture of	-	1	- ;	- 1	- (	:	- 1	- 1	-	- 1		÷	+	+	- 1	- 1	
Females	- 1	÷	- 1	- 1	1	1	-1	-1	- (	- ;	:	÷	1	H	H	1	1		H 66 G	- !	:	:	- 1	- 1	- 1	7	- 1	1	1	1	-:	÷	+	- :	- 1	.;
Males	1	:	:	-	;	- ;	:	- 1	-	-;	- 1	- 1	H	-	-	H	1	-	Heart, Valv. Disease of	- !	- 1	;	- 1	- 1	- :	- 1	:	- 1	1	1	-:	-1	-	-:	- !	- 1
Females	- (	1	- :	-:	- 1	- 1	:	- ;	- 1	- 1	1	+	1	н	1	-	00			1	- 1	- 1	- (	- ;	- 1	:	- ;	:	1	÷	-	-	-	-:	- 1	
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Males	- 1	H	1	1		- :		1	-	- ;	-	- 1	60	00	10	00	4	4	, ,	-	-	- ;	- :	. ;	;	1	1	:	;	-	-	+	- 1	- 1	- 1	
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Males	- ;	1	- 1	1	1	- 7	-	-1	- 1	4	1	- 1	H	1	п	H	1	-	Hemorrhage of Kidneys.	-	- :	- ;	- 1	:	- 3	- \$		-1	- 1	Ť	7	-	1	- 1		- 1
Total	00	1-	02	00	01	O.	-	00	-	65	Q3	- 1	25	5	30	81	8	17	Hemorrhage of Lungs.	04	6.9	-	00	00	00	00	- ;	20	60	01	*	01	21	-	01	- 1
Males	64	*	-	01	-	Ġŧ.	H	9	-1	H	H	-	15	77	7	15	18	13	" "	1	7	H	н	00	00	- 1	:	0.0	-5	н	Q1	G1	G1	-	-	- 1
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TABLE XVII.—Continued.—Specified Causes of Death.

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TABLE XVII

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Males		69	1 -	80	-	_	- 05		1 03		04	_	11		1			- 1	·	Exhaustion		1 10				-	:	-	-			:	;	00	00	-	1	-
Females	;	-	-	-	7.0	-	-	91	-	00	1 1	- 1	11	1	1	- 1	1	1	-		7	90	- 1	_	1	1	1	14	-	-	- 1	1	-;	01	-1	- 1	- 1	- 1
Fotal	91	+	-	- 1	-	01	-		-	69	29	1	21	64	G4	03		64	¥ E	Exposure	:	10	- 1	-	E	-	-	:	н	-	-	:	69	- ;	= ?	H	- ;	
Males	01	- 1	-	- 1	-	-	-	-	- 51	-1	-	1	00		21	-	-	01	*			01	_	=	-	-	-:	:	÷.	-	:	:	- 21	-	- 3	-	- 1	
Females	:	-	÷	1	100	-	- 1	- 1	-17	-1		14	7	1	i	-	1	i			-	00	- 1	- 4	1	+		:		-	-;	- ;		1	- :	1	- 1	4
Males	69	**	01	-	- 1		-	_		-	9	1	17	20	64	25	21		22 F	Falling Tree	1	7	-	_	-	4	÷	:	H	1	1	10	-	÷	:	- 1	1	
Females	1	- 1		-	-	+	-:	- :	-;	-:	- 1	- 1	1	1	1	1	- 23	50			- 1	-	- ;	_	- 1	1	- 1	1	-	-	- 1	-	;	1	112	1	:	
Males	1		:		_	- 1	-:	-:		- 1	- 1	1	1	1	_	_	1	1	1	Feet, Disease of	- 1		- 1	-	1	+	-:	-	- :	-	-	:	-	-	:	1	- 1	,
Total	01	93		01	01		01	9	10	-	4	- 1	15	23	58	3	#		30	Fever, Billous.	-	01	- 01	-	90	-	01	69	H	01	-	:	-	09	7	-	-	- 6
Males	1	+	- 1	-	-	00	-	-	-:	_		1	21	8	81	16	18		18	) H		49		-	- 1	-	H		-	-	-		1	:	-	H	-	- 1
Females	φŧ	H	69	H	=	-	-	13	-	-	-	- 1	61	25	88	88	8		12		•	10	98	1	00	-	-	69	,	-	-	- 5	-	01	1	- ;	1	
Total	1	:	H	-	1	+	1	-		- 1	7	:	10	13	19	6	•	-	4	Fever, Catarrhal	-	- 64	- ;	- 1	-	-:	-	1	-	÷	- :	-	03	-	- 1	- 1	7	
Males	1	1	:	- 5	- 1	4	-	-	-	1	-	. 1	G)	1-	65	-		63	60		:	-	_	+	1	-	Ť	•	1	÷	:		1	Ť	- 1	1	-	
Females	1	1	H	+	1		-	-	+	;	- 1	-1	00	9	64	10	0	-	H			-	- 1	_	+	+	-	1	-	÷	- 0		63	1	1	- 1	-	
Unknown.	1	1	:	-	;	1	1	- 1	- 1	- 1	-:	-	1	1	-	i		1	1		1	-	_	- 1	+	+	÷	i	÷	1	- 7		-	-	1	1	1	
Total	- (	-	H	1	-	1	- :	- 1	- 1		-	þ	00	61	3.3	99		61	D4	Fever, Congestive	1	Ç4	+	_	+	1	3	÷	- 1	÷	- 1		- )	:	-	1	1	
Males		1	1		=	1	-	- ;	+	-	-	1	23	-	-	1		-	-		-	-	+	_	-	÷	÷	1	7	÷	:		4	:	-	1	:	- 1
Females	- 1	1	-	-	-	+	- 1	-	:	-	1	1	-	-	- 01	00		-	1	"	:	-		- :	_	1	-	-	1	÷	- }		-	÷	1	- 4	- 1	
Total 1	+	1	:	+	1	-	4			-	- 1	1	4	-	62	i	1	1	1	Fever, Continued		-	- 1	_	1	1	- 5	+	1	÷	- 0		+	Ť	-	1	1	-
Males	+	1	1	4	- 1	H	1	1	_	1	1	1	00	-	-	ì	1	1			:	-	1	1	- 1	-	-	-	1	÷	- 1	- :	-	-	1	;	:	-
Temelos		-	-	-	-	_	_	_	_	_	_		,					_	_		_	-	_	-	_	-	-		-	-	_			_		_		

į	100	4	1		,	,					1	1	1		-		THE PERSON AND THE PERSON OF T	:				:		-	-				-	:	:	:
-				-	1	+	1	÷	1	Í	-	ē					Caratan Ca	Ī		-								-				
-		1	7	-	_	_	-	-	7	1	10	φ	1-	36	=	4	Catarrh	•	00	1	1	.:	i	:	:	:	î	+	:		-	1
-	+	- 1	-	1		1		H	*	1	00	10	99	Ξ	1	*		1	69	1	:	1	1	+	:	1	×	1	;		-	1
_	-	- 1	÷	+			-	- 1	1	1	61	-	4	10	4	1	-	:	-	1	-	1	i		1		1	1	-	- 1	:	
_	1	1	÷	1		1	- 1	1	:	- 1	-	1	1	21	1	1	Chest Disease	-:	1	- 1	- !	-1	1	- ;	-	1.5	i	+	1	- 1	;	- 1
	- 1	1	- 1	- 1	1	1	+	-1	;	+	1	-	1	Ť	1	1	Chest, Inflammation of	1	i	- 1	1	1	1	-	1	- 1	i	- 1	- 4	:	-1	- 1
Fomales	+	1	-	1		i	-	- }	:	+	1	н	1	-	1	1		:	1	1	:	:	í	1	1	- 1	1	1	1	- 1		- 1
Males	-	-	- 1	1	1	1	1	-)	1	1	-	60	-	-	7	1	Chicken-pox	. 1	-	- !	1	- 1	1	1	1	1.5	i	7	+	- 1	:	1
Females	-	:	-1	1		1		- 1	1	-	1		г	H	i	1		1	1	1	1	1	1	- 1	1		- !	1	-:	1	1	1
Fourtles 14 13	13 23	23	61	21 18	21	-	1 12	15	13	- 1	EGI	199	193	193	191	151	Jol Childbirth.	1	- }	1	119	99	57	30 38	8	50	1	1	- 1	- 1	;	1
Total 7	00	=	61	00	7		4	*	69	1	8	81	89	19	64	75	Chills, Congestive	1	16	01	61	90	01	01	63	-	1	01	01	+	-	03
Males 5	09	9	-1	1 1	-		01	1	H		51	7	35	30	88	68	, ,	- 1	=	02	-1		1	-	01		-	-	1 1	O.	- 1	01
Females 2	- 01	10	7	03	1		69	03	П	-	63	120	100	75	36	88		- 1	10	-		- 00	61		1	H	-		-	61	-	:
Females		3	1	:	- 1	- !	- 1	- 1	i	+	1	-	1	1	1	1	Chills, Nervous	- 1	i	1	- 1	1	1	-	- !		1	1		:	:	- ;
Males	,	Į.	-1	:		-	- 1	1	1	+	1		1	1	1	-	Oblorine	1	- 1	- 1		- 1	1	:	4	- *	7	;	1	- :	- ;	:
Males		:	÷	1	1	. !	-1	- ;	1	- 1	1	·	1	1	1	7	Chloroform	1	1	- 1	1	1	- :	1	1	7	i	1	_	- :	1	- ;
Females	-	;	1	-:	- :	-	;	- 1	- 1	- 1	-	·	1	1	1	1	=	- 1	1	-1	- 1	i	+	- :	1	-1	1	1	1	1	1	1
Females		- {	-	1	- 1	1	;	1	-1	÷	1	•	1	1	7	1	Chlorosis	1	. 1		1	1	1	- 1	1	1	-	1	- 1	- 1	:	:
Fotal	- 1	Ţ	-	-	1		1	1	- 1	-	4	KQ.	60	G,	*	61	2 Choking	1	-	:	- 1	i	1	1	1	- 1	1	:	-;		- 1	:
Males	:	1	-		- 1	1	- (	1	- 1		01	64	-	1	*	1	1		01	1	- )	1	1	-	:		1	:	1	:	1	1
Females		- 1	- 1	4			-	- (	1		04	60	01	69	1	1		1	04	- !	4	!	:	1		:	:	:	- 1	Ē	1	1
Total 4	9	00	101	10.58	138	101	1 63	133	10	7	428	857	669	300	243	370	Cholera Infantum	1	418	7	1	1	- 1		4	- ;	1	1	1	1	;	- ;
Males 2	40	00	+	7 30	76	57	35	60	9	=	122	462	286	173	133	200	7		818	80	- 1	1	1	-:	1	:	1	1	-		1	1
Females 2	60	10	9	28	69	4	38	10	*	29	207 3	391	112	125	911	165		1	200	1	1	1	1	3	:	1	- 1	- 1	1	1	1	1
Unknown	1	- 1	-	:	4	1	- 1	:	1	+	1	7	01	01	Ol.	1		-	1	1	1	1	1	:	- ;	Ì	1	-:	1	1	.1	- 1
Fotsl 1	-	1	:	00	16	=	01	01	1	17	150	69	25	30	23	98	26 Cholora Morbus	i	21	G¥.	1	-	01	1 1	-	01	H	61	61	61	*	69
Males 1	-	- 1	1	-	13		9 1	;	- 1	-	96	40	56	16	12	17		1	1-	-	1	-	04	1	-	01	H	1	H	03	*	н

TABLE XVII.—Continued.—Specified Causes of Death.

				Ä	MonT	тиз,		28 28	.:						Ģ	YRARS.					-			Ĭ	3 18	AGES IN PERIODS	Ē	EBI	Õ	5	<b>;</b>	OF YEARS.	- 88	1887	<b>3</b>		
SEX.	January.	February.	March.	April.		July.	August.	September.	October.	November,	December.	Unknown.	,2881	1881.	.0881	.6781	.8781		.7781	CAUSES OF DEATH.	1 3.00	Under 5.	210101	10 to 15.	15 to 20.	20 10 25.	30 to 30.	.02 to 40.	40 10 45.	45 to 50.	.00 to 55.	.00 or 66	.60 to 65,	.07 03 68	70 to 75.	75 to 80.	SO and over.
Females 12 14 13	03	7		7 16	1 22	-	133	26	55	17	21	1	193	393	228	8 207	7 153	-	912	Pever, Typhoid	:	27	12	8	65	53	12	-		-	8		20		24	-	64
Unknown.	- 1	1	1	1	:	;	-	:		- 1	1	- 1	1	- )	i	1	- 1	+	1	, , , , , , , , , , , , , , , , , , ,	1	1	:	÷	-	=	1	÷	-:	-	- 1	1	- :	- 1	1	- 1	*
Total	95	90	01	00	7	-	-	64	9	01	04	2	55	49		6	7	00	#	ever, Typho-Malarial	-	00	00	7	10	00	01	-	69	- 1	G.S.	01	04	-	-	- 1	
Males	69	00	G#	C+	-	-	01	- 1	05	-	-	- 1	19	23	-	_	_	10	-			61	7	4	GI	-	H	-	*	1	-	0.5	- 1	-	- (	- 1	
Females	H	+	-	-	00	- 1		O.S.	0.0	-	-	-1	13	98	-	69	00	99	00		-	1	69	:	00	09	H	-	- :	-:	-		O.	- 1	-		- 5
Total	- ;	- 1	1	_	4	01	-	-	-	-	1	- ;	10	9	-	-	-	10	20	ever, Typhus		00	:	:	-	60	H	61	:	- 1	:	-1	- 1	1	- 1		1
Males	i	1	-		01	-	7	1	~	-	- 1	- ;	9	10	_	-	90	01	13		-	F	- :	1	-	61	H	-	- 1	- ;	;	-!	;	- 1	-1	•	
Females	ā	i	1	1	.01			-	4	1	3	- ;	4	9		10	00	65	16	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	-	01	- 1	-	:	=	*	-	÷	1	:		:	1	1	(	10
Males	í	1	1	3	-		- !		:	- :	-\$	1	1	!		-		01	6	ever, Yellow	- 1	i	÷	-	- 1	-	-	-	÷	- 1	_;		- ;	- ;	- 1		
Total	00	-	*	10	17	00	10	6	-	9	04	-	17	96	105	3		3	98	ever (Unspecified)	-	83	60	*	10	*	10	4	10	3 1	60	60	01	П	- 1		144
Males	;	60	00	00	60	61	9	1-	O1	н	-	-	95	55	20	25		88	75		1	36	-	63	н	п	01	61	-		-	H	Ċ1	- }	:	- 1	-
Females	60	*	=	01	10	-	7	63	2	10	-	-1	37	7	20	07		31	23		-	23	01	23	4	20	-	63	7	-	0.5	Q1	- 1	-	- :	1.6	
Unknown.	:	- 1	1	- 1		- 1	;	3	- 1	- 1	- 1	1	1	1	1	1		-	1		1	i	:	+	1	-		1	-	1	- 1	У.		. !	:	1	
Males	1	1	1	1	-	1	V.	11.0	1	Y	- ;	1	i	1	C.	1	1	-	1	Fistula	+	1	3	- 5	- 1	+	-	- 1	- 1	-1	- 1	111	1	3	- ;		- 3
Females	:	-	1	+	+	-	1	160	- 1	- 1	1	-1	1	1	1			-	1		-	1	i	+	+	1		- 1	- 1	-1	1	- 4	_ ;	:	- 1	1	
Males	-	1	-	- :	-	-1	-	:	1	1	1	T	Н	1	1	1	i	_	1	Fracture of Arm.		i	-	+	1	1	-	- 1	. :	-	1	30	- )	:	:		
Total	+	-	-	1	- 1	-	1	1	t	-	Q1	- 3.	1-	•	C.	- 01		-	4	Fracture of Hip	1	i	- 1	1	1	:	-	1	-1	- 2	-1	*	п	!	03	-	95
Males	-	-	-	+	-	- }	:	- ;	- 1	1	- ;	-1	-	00	ţ	1	-	-	-	, , ,	- 1	i	- 1	-	1	1	-	- ;	- 1	- 1	:	- 1	_:	;	-	-	
Females	4	-	-	1	- !	7	- 1	- ;	- 2	н	03	- 5	9	-	61	61	1	_	00	n n n	-1	1	:	1	-1	-	_	- 1	- 1		:	= TK	H	- 0	н	-	00
Total	-	1	1	1	_ 1	-1	- 1	_1	1	- 1	1		ON.	60	9		-	_	F	racture of Leg.	- 1	+	1	+	1	- 1	_	+		12	- 1	- 1	- ;	-	- 5	H	-
Malos			H	_									-					_			-		-			-	_							4			

Females [ 1] [ [ [ [ [ [ [	1	01	1	-	1	Fracture of Leg	1		1	-	1	1	1
Males 1 1 1		*	7	-	*	Fracture of Neck	1	1 1	:	-	1	1	1
Females	1	-	3.	1	r	" " " "	1	1	1	1	1	1	1
Males	1	1	1	1	н	Fracture of Pelvis	1	1	1	1	1	1	1
Males	1	!	- 1	C4	1	Fracture of Ribs.	1	1	:	+	1	1	1
Fomalos	:		н	i	1		1	1	1	1	1	1	- 1
Total 1 1	63	п	1-	83	1	Fracture of Skull	1	1	1	-	1	1	:
Males	1 5	-	7	00	1	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	1	1	1	1	1	:	1
Females	-	- 1		1	1		1	1	1	1	1	:	1
Total 2 -   -   -   1 1 -   2	9	-00	-	00	1	Fracture of Spine	1	51	+	G*		1	:
Males 1 1 2 -	4	00	H	99	-1		1	69	+	-	1	1	1
Fomales 1 1	91	- 1		-	-	, , , , , , , , , , , , , , , , , , ,	-	:	1	-	1	1	1
Males	1 1	Q1	04	1	- 4	Fracture	1	1	1	-	:	-	;
Males 3	00	00	*	01	-	Freezing	1		+	Y	:	1	1
Females	1		1	1	36	*	1	1	1		1	1	1
Males	4	п	- 1	1	H	Fright	1	1	1	-	1	1	1
Females	1		-	1	- 4	Fungus Hæmatodes	-	1	1	-	:	1	4
Males		.04		1		Gall-Bladder, Rupture of	:	1	+		1	:	1
Females	1	F	г	1	1.3		1	1	1	3	1	+	;
Females		x	Q4	1	- 1	Gall, Disease of	i	1	1	1	1	1	1
Males	98	-	н	1	91	Gall-Stone	1	1	1	1	1	1	1
Females 1 1 . 1	99	F		1	63		i	1	1 1	7	1	1	14
Males	1		- 4	1	1	Gangrene, Sonilo.	Ì	1	1	1	1	1	1
Females	1	н		1	-	***	1	1 1	1	1	1	1	i
Males 1 1	61	G	1	00	0.0	Gangrene	1	1	:	1		1	:
Females	-	*	93	01	0 -	=	1	1	1	1	1	1	1
Males	-	+		1	1	Gastralgia	i	1	1	1	1	1	1
					ł								

TABLE XVII.—Continued.—Specified Causes of Death.

				7	Monte	ŢĦ	18,	ž								EARS				_		_			¥	<b>8</b>	X	Ę	KR	Ages in Periods of Vears 1882	8	~ •	¥	Ė	ī	8			
SEX.	January.	February.	March.	April.	Aune.	July,	yakare.	September.	October,	November.	December.	Unknown,		1882,	.1881	1880.	.6781	1878.	.778£		CAUSES OF DEATH.	Under 5.	.01 03 6	10 to 15.	TO 10 30'	20 10 22	25 to 30.	20 10 30	35 to 40.	.62 of 64	-	45 to 56.	.00 of 55	79 01 09	.07 04 60	70 to 75.	75 to 80.	.7279 bas 08	Unknown.
Males	1	1	1 1	1 .	1 1	1 1	1 1	1 7	1 :	,	;	_	1	-		1	01		1	. 3	Glandular Disease	1	1 :		1 :	1 :	_	1 :	1 :	1 :	1	1 :	1 .	1 :	1 :	1 1	-	1 -	1 :
Females	1	- 1	1	+	- 1	- 1	- 1	- :	- 1	+		- 1	+	1	1	1	1	-	1		*	1	-:	÷	- 1	- 4	-	-	1	_	+		-	-:		- 4	-5	_	-
Males	- }	1	- 1	4	1		- 1	4	-:	- 1	1		-1	T	:	1	1	1	- 1	9	Goltre	j	:		-		+	÷	+	+	1	-	- 1	-	-	- 1	-4	-:	-
Females	1		-	-	- :	-:	-:	_	1.		1	_	1	+	-	1	;	1		-		:	-	_	- 1	_	-	H	÷	1	-	-;	-		-	-	-	-	-
Males	1	1		-	1	-	1		1	4	T.	_	+	1	1	1	1	i		1 G	Gonorrhea	1	-:	_	1	_	1	+	-	+	1	+	1	-	- 4		- 1	_	÷
Females	i	-		-	+		+	-	-	- >	1	+	+	3	1	1	1	1	1	-		1	-:	_	1	_	-	-	1	1	1	-	÷	-		- 4	-		_
Males		- 1	-	-:	1	_	1	-:	_	- 1	1	_	1	1	1	Т	1	-		1 6	Gout	1	- 1	_	- 1	_	+	1	1	1	+	÷	+	-	÷	-:	-	-	- 1
Males	1	-	- 1	=	-	1	-	- 1	9	1	- 1	+	1	*	120	20	20	2		16 G1	Gravel	1	- ;	-	- 1	_	-		÷	1	-	T	-	-	_	23	÷	-	-
Females	:	-:	-	-	-:	1		- 1	-4	-	1	1	- 1	1	-	1	1	68	1				-:	_	-		+	:	-	-	-:	- :	- 1	-	-		*	_	- 1
Males	i	- 1	-	-	- 1	1	-1	_	1	+	1	+	-	i	1	:	H	1	1	. 6	Groin, Rupture of	1	-		1	- 1	÷	1	-	- 1	-	- 4	-	-	-	-	- 1	_	1
Males	H	-	-	H	-	25	-	-	00	-	100	60	1	20	124	15	0	15		5 6	5 Gun-shot	-1	-:	_	.01	-		-	н	=	24	69	-	-	-	-	-	-	
Females	7	-	Ť	-	-	-	- 1	_	- :	- 1	- 1	+	- 1	1	1	÷	-	- 64	1	-	, a	1	- 1		- 1	_	+	+	÷	+			-	+	+	+	-	-	-
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Head, Neuralga in   Head, Bapture in   Head, Bapt	Fomales	1	1	:	3	_		1	1	1	2	1	1	H	÷	1	60	Ī	Head	Head, Inflammation of	1	1	1	1	1	1	1	;	÷	1	1	J.	1	1	1	:
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1 2 Heart, Ossification of " " " " " " " " " " " " " " " " " "	Females	63		-	-	-	-	-1	- 1	1	- 1	-	9	4	7	90	01	9	*		1	_		-	:		- 1	_	_	_			- 1	-	- 1	:
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TABLE XVII.—Continued.—Specified Causes of Death.

Tebrusity		
	18181	Under 5.  5 to 10.  10 to 15.  10 to 15.  15 to 20.  20 to 25.  26 to 30.  30 to 35.  36 to 40.  40 to 45.  45 to 50.  60 to 65.  65 to 60.  60 to 65.  75 to 80.  75 to 80.
	1 Heart, Palpitation of	
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	, , , , , , , , , , , , , , , , , , ,	
	1 Heart, Rupture of	
	1 . Heart, Valv. Disease of	
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1	2 Hemorrhage of Bladder	
1		111
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3 7 3 2 2 2 1 8 1 3 2 37 21 20 22 25 17	1 1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1
3 7 3 3 2 2 2 1 8 1 3 2 37 21 20 22 25 17	1 Hemorrhage, Internal	
3 7 3 3 2 2 2 1 8 1 3 2 37 21 20 22 25 17		
3 7 3 3 2 2 2 1 8 1 3 2 37 21 20 22 25 17	1 . I Hemorrhage of Kidneys	
	8	23 24 25 25 25 25 25 25 25 25 25 25 25 25 25
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Females	<u>:</u>	-:	<u>:</u>	$\frac{\cdot}{\cdot}$	:	;	<del>:</del>	<del>:</del>	:	<u>:</u>		_				Hemorrhage, Ovarian	<del>-                                    </del>	-:		:	:	<del>:</del>	-:	<del>:</del>		<del>:</del>		$\vec{}$	
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Females	<del>:</del>	:	:	<del>-:</del>	:		$\div$	<del>-</del>	_:	-;		<u>.</u>	63				- <del>:</del>		<u>:</u>	<del>-</del> ;	_:	$\frac{\cdot}{\cdot}$	-	<del>;</del>	:	_ <u>;</u>	:	<u>:</u>	
Males	:		<del>-</del>	<del>:</del>	=	<u>-                                    </u>	$\div$	-÷		-				c1	_	Hemorrhage, Umbilical	<del>-</del>	<del>-</del>	<u>:</u>	- <del>:</del>	Ξ	$\frac{\cdot}{\cdot}$	<u> </u>	<del>:</del>		<u>;</u>		$-\frac{\cdot}{\cdot}$	
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TABLE XVII.—Continued.—Specified Causes of Death.

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TABLE XVII.—Continued.—Specified Causes of Death.

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TABLE XVII.—CONTINUED.—Specified Causes of Death.

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TABLE XVII.—Continued.—Specified Causes of Death.

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TABLE XVII.—Continued.—Specified Causes of Death.

	CAUSES OF DEATH.  CAUSES OF DE		The second secon	Ages in Periods of Years.—1882.	. 1	1-
11   6   15   9   9   Murder   1   1   1   1   2   1   1   2   1   1	5 15 5 5   Norveolis   Norve	.0881 .0781 .878.	CAUSES OF DEATH.	5 to 10,   10 to 15,   15 to 20,   20 to 25,   25 to 30,   35 to 30,   35 to 30,   45 to 30,   45 to 30,   45 to 30,   50 to 45,   50 to 55,   50 to		1
10 5 10 5 6 10	1	6 15 9 9	Murder	1 2 1 1 2 1	-	- 1
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3         1         2         Necrosis           12         10         4         6         5         Nerro Disease         1         1         1         2         3           14         8         8         5         6         Neuralgia         1         1         1         1         1         2         1           6         7         8         8         5         6         Neuralgia         1         1         1         1         2         1	1   Neglect   1   Neglect   1   Neglect   1   1   1   1   2   3   3   4   5   Nerve Disease   1   1   1   1   1   3   5   5   Nerve Disease   1   1   1   1   1   1   1   1   1	1 1 5 4 4				- 1
3       1       Neglect       1       1       1       1       2       3       4       3       3       4       3       3       4       3       3       4       3       3       4       3       3       4       3       4       3       4       3       4       3       4 </td <td>  1 Neglect   1 Neglect   1 Neglect   1   1   1   2   3   3   3   4   5   5   Nerve Disease   1   1   1   1   3   5   5   5   Neuralgia   1   1   1   1   1   1   5   5   5   5</td> <td></td> <td>Vecrosis</td> <td></td> <td></td> <td>;</td>	1 Neglect   1 Neglect   1 Neglect   1   1   1   2   3   3   3   4   5   5   Nerve Disease   1   1   1   1   3   5   5   5   Neuralgia   1   1   1   1   1   1   5   5   5   5		Vecrosis			;
12         10         4         6         5         Nerve Disease         1         1         1         1         2         2         3         3         4         3         1         4         3         1         1         1         1         1         1         1         2         1         1         2         1	10   4   6   5   Nerve Disease   1   1   1   1   2   3   3   4   4   5   Nerve Disease   1   1   1   1   1   1   1   2   4   5   4	1 1	Veglect	1 1		1
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7   3   3   4     1   Nightmare   1     1     1     1     2   1   1   1     2   1   1   1     2   1   1   1   1     2   1   1   1   1   2   1   2   2   2	7 3 3 4  1 Nightmare  625 608 579 489 Out Age  808 314 298 241  1 Option Eating  1 1 2 Ovarian Disease  1 1 2 Ovarian Tumor  1 1 2 1 0 0 0 arithmare  1 1 2 0 0 0 arithmare  1 1 2 0 0 0 arithmare  1 1 2 0 0 0 arithmare  1 1 2 0 0 0 arithmare  1 1 2 0 0 0 arithmare  1 1 2 0 0 0 arithmare  1 1 2 0 0 0 arithmare  1 1 2 0 0 0 arithmare  1 1 2 0 0 0 arithmare  1 1 2 0 0 0 arithmare  1 1 2 0 0 0 arithmare  1 1 2 0 0 0 arithmare  1 1 2 0 0 0 arithmare  1 1 2 0 0 0 0 arithmare  1 1 2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0	1 0 2		1	:	12
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TABLE XVII. -- CONTINUED, -- Specified Causes of Death.

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February.   March.   April.	April.	- Au W	May.	June,	Augual	September.	October.	November.	December.	1882.	1881	.0881	.6781	.8781	.778I	CAUSES OF DEATH.	Under 5. 5 to 10.	10 to 15.	15 to 25.	20 to 30.	30 to 35.	.01 of 68	40 to 45,	50 to 55.	55 to 60.	60 to 65.	70 to 75.	75 10 80.	SO and over.	Unknown,
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TABLE XVII. -CONTINUED. - Specified Causes of Death.

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RS.	.6781	20	1	27	1	1	46	81	24	1	1	1	-	22	16	10	418	81	193	1	28	77
YEARS	.0881	00	00	1	1	1	88	19	6	-	1	-	T	36	99	13	370	197	172	-	31	20
	.1881.	9	*	01	1	1	45	151	18	0.0	1	91	-	31	61	7	383	186	196	1	31	13
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TABLE XVII.—Continued.—Specified Causes of Death.

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TABLE XVII. -CONTINUED. -Specified Causes of Death.

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TABLE XVII.—Continued.—Specified Causes of Death.

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TABLE XVII.—Continued.—Specified Causes of Death.

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The special causes tabulated as "Casualty" are shown in Exhibit R. It is hoped that the information presented here may lead to more perfect knowledge and more effective measures for the prevention of violent deaths.

EXHIBIT R.—Deaths in Michigan in 1882, Compiled as Casualty.

CASUALTY,-CAUSES AS RETURNED.	Num- ber.	CASUALTY,-CAUSES AS RETURNED.	Num- ber.
Total number tabulated as Casualty in	268	Injury to head	9
		Killed by cyclone	0
Killed in mine	17	Death from fall	28
Killed by engine	1	Killed by runaway	21
Accidental	88	Killed by stump machine	1
Injury under ground	1	Killed by falling building	- 4
Pall on boat	2	Fell from tree	4
Explosion of powder	1	Killed by bursting of emery wheel	3
Fall from dock	2	Killed by falling timber	2
Injury to spine from fall	1	Fell from building	4
Kicked by a horse	13	Run over by hack	1
Stepped on a nail	1	Struck by a beetle	3
Killed in saw mill	6	Fell into a post hole	1
Run over by cars	2	Injured by sled	1
Accident in woods	17	Fell from swing	7
Killed by caving bank	4	Taking vitalized air	1
Fell on ice	1	Fell in cistern	2
Fell down stairs	3	Fell from hay mow	1
Killed in well	2	Killed by a sheep	1
Killed by wagon	3	Toy pistol	3
Explosion of boiler	7	Killed by street car	3
Killed in mill	9	Fell in vault	1
Gored by a cow	9		

## STATISTICS OF SUICIDE.

The whole number of suicides returned for the year 1882 is 62, of which 44 were males and 18 females. The average annual number for the 10 years 1873-1882 is 57. Of the whole number 30 were of American birth, 17 being from Michigan and 13 from other states. Eleven were natives of Germany, 7 of Canada, 2 of England, 2 of Holland, 1 each of Denmark, Ireland, Poland, Prussia, Scotland, and Switzerland. In four cases the nativity was not stated. The largest number of suicides among males occurred between the ages of 35 to 40 years, and the largest number among females between the ages of 15 to 20.

The classification by conjugal condition reveals the following facts. There were twenty-five married males and eight married females, sixteen bachelors, and eight unmarried females, two widows and one widower among the number of suicides. Of two males and one female the social condition was not stated.

The means employed were various. In the case of 19 males and 7 females it was not given. Seventeen suicided by poison, 7 by shooting, 8 by hanging, 3 by drowning, and 1 by throat-cutting.

The greatest number of suicides was among farmers, the next greatest

among those classed as laborers.

EXHIBIT 9.—Certain facts concerning Persons Returned as having died by Suicide in Michigan during the Year 1882.

DATE OF DEA	ATE,	Age,	Condi-	Sex.	Color.	Occupation,	Nativity.	Means Used.
Month.	Day.		1,041					
January	20	35.	M.	M.	w.	Laborer	Connecticut	Not given.
January	19	22	S.	M.	W.	Laborer	Michigan	Hanging.
February	6	36	S.	M.	W.	Miller	Unknown	Not given.
February	27	27	S.	M.	W.	Farmer	Prussia	Shooting.
February	23	39	s.	M.	w.	Farmer	Michigan	Cutting Throat.
March	6	35	Unk.	M.	w.	Laborer	Canada	Hanging.
March	28	12	Unk.	F.	w.	Unknown	Germany	Poison.
March	24	50	Unk,	M.	W.	Teamster	England	Not given.
March	14	48	M.	M.	W.	Carpenter	Germany	Not given.
April	15	51	8.	M.	W.	Farmer	Canada	Not given.
April	27	16	s.	F.	w.	Unknown	Michigan	Poison.
April	7	63	M.	M.	W.	Unknown	Holland	Not given.
April	17	36	M.	M.	w.	Foreman	Scotland	Not given.
April	Unk.	72	w.	F,	w.	Unknown	Ohio	Hanging.
April	7	44	M.	M,	w.	Workman	Germany	Shooting.
Мау	31	18	S.	F.	w.	Waiter	Ontario	Poison.
Мау	25	33	s.	M.	w.	Mechanic	New York	Morphine.
Мау	22	28	S.	M.	w.	Laborer	Canada	Not given.
Мау	16	20	M.	M.	w.	Liquor Store	Germany	Drowning.
May	10	26	M.	M.	w.	Farmer	New York	Not given.
May	1	60	S.	M.	w.	Mason	Germany	Shooting.
May	17	51	M.	M.	w.	Farmer	Unknown	Hanging.
May	12	72	M.	F.	w.	Farmer	Ireland	Not given.
June	11	41	M.	M.	w.	Farmer	Michigan	Poison.
June	12	18	S.	F.	w.	Unknown	Michigan	Poison.
June	6	37	s.	F.	w.	Housekeeper	New York	Morphine.
June	24	32	M.	M.	w.	Farmer	Michigan	Drowning.
June	26	36	M.	M.	w.	Dep. Rev. Col	Ohio	Not given.
June	14	50	M.	F.	w.	"Saloon"	Germany	Not given.
June	1	19	S.	F.	w.	Laborer	Michigan	Poison.
July	6	75	M.	M.	w.	Farmer	Canada	Hanging.

# EXHIBIT 9.—CONTINUED.—Suicidal Deaths, 1882.

DATE OF DE 1882.	ATH,	Age.	Condi,	Sex.	Color.	Occupation.	Nativity.	Means Used
Month,	Day.		Lion					
July	25	73	w.	F.	w.	Unknown	Michigan	Poison.
August	28	22	S.	M.	W.	Woodsman	Pennsylvania	Not given.
August	7	33	M.	F.	w.	Unknown	Unknown,	Not given.
August	21	21	s.	M.	w.	Farmer	Canada	Poison.
August	17	35	M.	M.	W.	Barber	Michigan	Not given.
August	2	36	M.	F.	W.	Housewife	Michigan	Hanging.
August	20	23	M.	M.	w.	Farmer	Michigan	Not given.
August	26	25	M.	F.	w.	Housewife	Michigan	Drowning.
September	29	45	s.	M.	w.	Veterinary	Denmark	Poison.
September	8	44	M.	M.	w.	Farmer	England	Shooting.
September	10	42	M.	M.	W.	Farmer	New York	Morphine.
September	19	57	w.	M.	w.	Laborer	Germany	Not given.
September	25	48	M.	M.	w.	Cigar Maker	Germany	Not given.
October	17	66	M.	M.	W.	Farmer	Ohio	Shooting.
October	20	26	S.	M.	w.	Laborer	Michigan	Poison.
October	28	61	M.	F.	W.	Housewife	New York	Hanging.
October	23	65	M.	M.	W.	Farmer	Canada	Hanging.
October	14	18	S.	F.	W.	Laborer's Child	Michigan	Not given.
October	2	35	M.	M.	W.	Farmer	Germany	Paris Green.
October	19	49	M.	F.	w.	Housewife	Switzerland	Not given.
November	2	35	M.	M.	w.	Farmer	Michigan	Shooting.
November	14	72	M.	M.	w.	Laborer	New York	Not given.
November	26	41	s.	M.	W.	Unknown	Michigan	Morphine.
November	16	62	M.	M.	w.	Servant	Germany	Not given.
December	21	69	s.	M.	w.	Cook	Holland	Not given.
December	5	15	S.	F.	w.	Domestic	Minnesota	Poison.
December	7	68	S.	F.	W.	Housekeeper	New York	Not given.
December	10	28	S.	M.	w.	Travel'g Agent	Michigan	Poison.
December	15	27	s.	M.	w.	Laborer	Poland	Shooting.
December	20	29	M.	M.	W.	Laborer	Germany	Not given.
Jnknown	Unk.	40	M.	F.	w.	Unknown	Unknown	Not given.

## EXHIBIT 9.—Continued.—Suicidal Deaths, 1882.

OCCUPATIONS	•	No.	OCCUPATIONS	3.	No.	OCCUPATIONS	3.	N
Barber		1	Housewives		4	Teamster		_ -
Carpenter		1	Laborers		9	Town Laborer		
Cigar-maker		1	Laborer's Daughte	r	1	Traveling Agent		
Cook	•	1	Liquor Store		1	Unknown	·	
Dep. Revenue Collec	tor	1	Mason		1	Veterinary		
Domestic		1	Mechanic		1	Waiter Girl		
Farmers	•	17	Miller		1	Woodsman		
Foreman		1	"Saloon"	<b>.</b>	1	Workman		
Housekeepers		2	Servant	<b></b>	1			-
Total								
Nativity.		No.	Nativity.		No.	Nativity.		No
Canada		. 6	Ireland		1	Pennsylvania		
Connecticut		. 1	Michigan		17	Poland		1
Denmark		1	Minnesota		1	Prussia		1
England		. 2	New York		7	Scotland		1
Germany		11	Ohio		3	Switzerland		1
Holland	• • • • • • • • • • • • • • • • • • • •	2	Ontario	•	1	Unknown		4
Total		••••				•		63
	Nun	ber.		Nun	ber.		Nur	nber.
Moans Used,	Males.	Fe- males.	Means Used.	Males.	Fe- males.	Means Used.	Males.	Fe- males
Cutting Throat	1		Morphine	3	1	Poison	5	7
Drowning	2	1	Not given	19	7	Shooting	7	ļ
Hanging	5	3	Paris Green	1				
·	·				<u>'</u>			

#### PRINCIPAL CAUSES OF DEATH.

The following table gives the number of deaths in Michigan, from each of fifteen principal causes, arranged in order of greatest fatality, in the year 1882. Consumption again assumes its place at the head of the list, having been superseded by diphtheria in 1881. Although the number of deaths from consumption, in 1882, is less than for the two previous years, it is still greater than the average for ten years (1873-1882) by 156.

Next to consumption, diphtheria has caused the greatest destruction of human life for each of the years 1878-1882. The most noticeable changes from 1881 have been in typhoid fever and diarrhea. Typhoid fever declined from third place in 1881 to eighth place in 1882, while diarrhea, occupying eighth place in 1881, has disappeared entirely from the table. Scarlatina ranked sixth in 1878 and 1879, tenth in 1880 and 1881, and sixth again in 1882.

The fifteen leading causes of death formed 57.13 per cent of the total mortality of the State in 1882, as compared with 57.43 in 1881 and 58.02 in 1880. Some of these important causes of death will be considered again in subsequent pages.

TABLE XVIII. -Order of Succession of Fifteen Principal Conditions and Causes of Death in Michigan in 1882, according to the Returns, Exhibiting for each Specified Condition and Cause, by Sex, the Number of Deaths and the Per Cent of Deaths from each Cause to Deaths from All Causes.

in.	SPECIFIED CAUSES AND	NUMB	ER OF DI	EATHS.	CAUSE	ENT FROM	IS FROM
ORDER.	CONDITIONS.—1882.	Total.	Males.	Females.	Total.	Males.	Females.
1	Consumption	1,804	832	972	10.98	9.55	12.68
2	Diphtheria	1,416	671	745	8.62	7.70	9.75
3	Still-born	a 792	438	321	4.82	5.03	4.19
4	Pnenmonia	b 735	403	330	4.47	4.63	4.3
5	Old Age	647	317	330	3.94	3.64	4.3
.6	Scarlet Fever	592	276	316	3.60	3.17	4.15
7	Heart Disease	510	264	246	3.11	3,03	3.21
8	Fever, Typhoid	e 463	269	193	2,82	3.09	2,59
9	Apoplexy and Paralysis	443	240	203	2.70	2,75	2.60
10	Cholera Infantum	428	221	207	2.61	2.54	2.70
11	Convulsions	356	198	158	2.17	2.27	2.00
12	Dropsy (unspecified)	317	161	156	1.93	1.85	2.04
13	Croup	303	183	120	1.84	2.10	1.57
14	Cancer	301	139	162	1.83	1,60	2.11
15	Brain, Inflammation of	276	156	120	1.68	1.79	1.57
3	Potal	d 9,383	4,768	4,579	57.13	54.72	59.75
2	All Causes	* 16,425	8,713	7,664	100.00	100.00	100.00

a Includes 33 unknown sex.

b Includes 2 unknown sex. c Includes I unknown sex.

d Includes 36 unknown sex. e Includes 48 unknown sex.

EXHIBIT T.—Order of Succession of Fifteen Principal Causes of Death in Michigan for each of the Years 1875-1882, inclusive.

-	-			-			1	-
ORDER	1875.		1876.		1877.		1878.	
1	Consumption	1479	Consumption	1590	Consumption	1664	Consumption	1641
2	Pneumonia		Still-born	646	Still-born	720	Diphtheria	887
3	Still-born	629	Pneumonla	627	Diphtheria	593	Still-born	793
4	Typhoid Fever	433	Old Age	483	Old Age	489	Old Age	579
5	Scarlet Fever	423	Typhoid Fever	426	Pneumonia	465	Pneumonia	462
6	Old Age	373	Scarlet Fever	399	Typhoid Fever	446	Scarlet Fever	429
7	Cholera Infantum	280	Apoplexy and Par.	337	Scarlet Fever	404	Heart Disease	332
8	Heart Disease	289	Cholera Infantum.	331	Cholera Infantum	370	Typhold Fever	320
9	Diarrhea	283	Heart Disease	320	Heart Disease	367	Apoplexy and Par.	328
10	Apoplexy and Par.	259	Diphtheria	311	Apoplexy and Par.	329	Convul. and Fits	288
11	Convul. and Fits	258	Diarrhea	304	Convul. and Fits. 1	298	Cancer	269
12	Brain, Inflam. of	232	Brain, Inflam. of	275	Brain, Inflam. of	291	Dropsy	249
13	Bowels, Inflam. of	218	Convul. and Fits	275	Cancer	265	Cholera Infantum.	243
14	Casualty	215	Cancer	241	Diarrhea	265	Brain, Inflam. of	225
15	Dropsy	215	Bowels, Inflam. of	239	Bowels, Inflam. of	226	Bowels, Inflam. of	214
-								
1								
ORDER.	1879.		1880.		1881.		1882.	
падио   1	1879.	1680	1880.	1829	1881.	2063	1882.	1804
madeo   1 on		1680 1473	Consumption	1000		2063 1954		1804
1 2	Consumption	1473	Consumption	1542	Diphtheria		Consumption	-
1 2	Consumption	1473	Consumption	1542	Diphtheria	1954	Consumption	1416
1 2 3 4	Consumption Diphtheria	1473 749	Consumption Diphtheria Pneumonia	1542 812 738	Diphtheria Consumption Fever, Typhoid	1954 884	Consumption Diphtheria Still-born	1416 792
1 2 3 4	Consumption Diphtheria Still-born	1473 749 701	Consumption Diphtheria Pneumonia	1542 812 738 625	Diphtheria Consumption Fever, Typhoid Cholera Infantum.	1954 884 857	Consumption Diphtheria Still-born	1416 792 785
1 2 3 4	Consumption Diphtheria Still-born Pneumonia	1473 749 701 608	Consumption Diphtheria Pneumonia Still-born	1542 812 738 625	Diphtheria	1954 884 857 805	Consumption Diphtheria Still-born Pneumonia Old Age	1416 792 785 647
1 2 3 4 5 6 7	Consumption Diphtheria Still-born Pneumonia Old Age Scarlet Fever	1473 749 701 608 418	Consumption	1542 812 738 625 513	Diphtheria Consumption Fever, Typhoid Cholera Infantum. Pneumonia Old Age	1954 884 857 805 725	Consumption Diphtheria Still-born Pneumonia Old Age	1416 792 785 647 502
1 2 3 4 5 6 7	Consumption Diphtheria Still-born Pneumonia Old Age Scarlet Fever Heart Disease	1473 749 701 608 418 414	Consumption Diphtheria Pneumonia Still-born Old Age Fever, Typhoid Cholera Infantum	1542 812 738 625 513 499 444	Diphtheria Consumption Fever, Typhoid Cholera Infantum. Pneumonia Old Age Still-born	1954 884 857 805 725 691	Consumption Diphtheria Still-born Pneumonia Old Age Scarlet Fever Heart Disease	1416 792 735 647 592 510
1 2 3 4 5 6 7 8	Consumption Diphtheria Still-born Pneumonia Old Age Scarlet Fever Heart Disease Fever, Typhoid	1473 749 701 608 418 414 397 358	Consumption Diphtheria Pneumonia Still-born Old Age Fever, Typhoid Cholera Infantum Heart Disease	1542 812 738 625 513 499 444 389	Diphtheria	1954 884 857 805 725 691 501	Consumption Diphtheria Still-born Pneumonia Old Age Scarlet Fever Heart Disease Fever, Typhoid	1416 792 785 647 592 510 463
1 2 3 4 5 6 7 8 9	Consumption Diphtheria Still-born Pneumonia Old Age Scarlet Fever Heart Disease Fever, Typhoid Apoplexy and Par.	1473 749 701 608 418 414 397 358	Consumption Diphtheria Pneumonia Still-born Old Age Fever, Typhoid Cholera Infantum Heart Disease Apoplexy and Par.	1542 812 738 625 513 499 444 389 370	Diphtheria	1954 884 857 805 725 691 501 451	Consumption Diphtheria Still-born Pneumonia Old Age Scarlet Fever Heart Disease Fever, Typhoid Apoplexy and Par.	1416 792 735 647 592 510 463 443
1 2 3 4 5 6 7 8 9	Consumption Diphtheria Still-born Pneumonia Old Age Scarlet Fever Heart Disease Fever, Typhoid Apoplexy and Par. Cholera Infantum.	1473 749 701 608 418 414 397 358 300	Consumption	1542 812 738 625 513 499 444 389 370 347	Diphtheria	1954 884 857 805 725 691 501 451 383	Consumption Diphtheria Still-born Pneumonia Old Age Scarlet Fever Heart Disease Fever, Typhoid Apoplexy and Par Cholera Infantum	1416 792 785 647 592 510 463 443 428
1 2 3 4 5 6 7 8 9 10	Consumption Diphtheria Still-born Pneumonia Old Age Scarlet Fever Heart Disease Fever, Typhoid Apoplexy and Par. Cholera Infantum. Convul. and Fits	1473 749 701 608 418 414 397 358 300 275	Consumption	1542 812 738 625 513 499 444 389 370 347 340	Diphtheria	1954 884 857 805 725 691 501 451 383 369	Consumption Diphtheria Still-born Pneumonia Old Age Scarlet Fever Heart Disease Fever, Typhoid Apoplexy and Par. Cholera Infantum Convulsions	1416 792 735 647 502 510 463 443 428 356
1 2 3 4 5 6 7 8 9 10 11 12	Consumption Diphtheria Still-born Pneumonia Old Age Scarlet Fever Heart Disease Fever, Typhoid Apoplexy and Par. Cholera Infantum. Convul, and Fits Cancer	1473 749 701 608 418 414 397 358 300 275 272	Consumption Diphtheria Pneumonia Still-born Old Age Fever, Typhoid Cholera Infantum Heart Disease Apoplexy and Par. Scarlet Fever Convul. and Fits Casualty	1542 812 738 625 513 499 444 389 370 347 340 310	Diphtheria	1954 884 857 805 725 691 501 451 383 369 361	Consumption Diphtheria Still-born Pneumonia Old Age Scarlet Fever Heart Disease Fever, Typhoid Apoplexy and Par. Cholera Infantum Convulsions Dropsy (unspec.)	1416 792 735 647 592 510 463 443 428 356 317
1 2 3 4 5 6 7 8 9 10 11 12 13	Consumption Diphtheria Still-born Pneumonia Old Age Scarlet Fever Heart Disease Fever, Typhoid Apoplexy and Par. Cholera Infantum. Convul. and Fits Cancer Dropsy	1473 749 701 608 418 414 397 358 300 275 272 260	Consumption Diphtheria Pneumonia Still-born Old Age Fever, Typhoid Cholera Infantum Heart Disease Apoplexy and Par. Scarlet Fever Convul. and Fits Casualty	1542 812 738 625 513 499 444 389 370 347 340 310	Diphtheria	1954 884 857 805 725 691 501 451 383 369 361 342	Consumption Diphtheria Still-born Pneumonia Old Age Scarlet Fever Heart Disease Fever, Typhoid Apoplexy and Par. Cholera Infantum Convulsions Dropsy (unspec.) Croup	1416 792 735 647 502 510 463 443 428 356 317 303

Exhibit T shows some of the diseases that have occasioned the greatest loss of life in Michigan for a period of years extending from 1875 to 1882, inclusive. There is, of course, great diversity, but some interesting features may be discovered concerning the order of diseases in different years. Thus, the rise of diphtheria from tenth place in 1876 to third place in 1877; second place in 1878, 1879, and 1880; first place in 1881; and back again to second

place in 1882.

Tables XIX. and XX. show the number and per cent of deaths, by ages and seasons for 1882, from each of ten prominent causes. Some very interesting features characterize these tables. It may be noticed that the two most striking differences, in mortality by sex, are that many more females than males die of cancer, and more males than females of croup. Cancer appears to be especially fatal at ages from forty to seventy-five, and quite evenly distributed through the different months of the year. Cephalitis was most fatal in September, October, and August, and in ages under five years. Croup and diphtheria were most fatal in early winter, and least so in summer; a very

large proportion of the deaths occurred in infancy and childhood.

Diarrhea and dysentery prevailed as usual, in hot weather, being of very little prominence until July, then falling off again in November. More than three-fourths of the mortality occurred among those under five years of age, and of the two sexes the males predominate. In 1882, measles occurred mostly in the months of April, May, and June, and in ages under five. Scarlet fever increased from October to March and then decreased; nearly twothirds of its mortality was at the age of five or under. Of the two sexes the females were in the excess. The mortality from typhoid fever increased rapidly in September, reached its highest point in October, and then declined again to quite its normal average in December. The greatest number of deaths was between the ages of fifteen and thirty, the most of which being those aged twenty to twenty-five. Deaths among males exceeded by 16.42 per cent the deaths among females. Whooping cough, the last disease represented in Tables XIX. and XX., shows an equal percentage of males and females, and was less fatal than usual. About 94 per cent of the deaths from whooping cough were under the age of five years.

[ABLE XIX.—Deaths from Ten Specified Causes Returned as having occurred in Michigan, during the Year 1882, Exhibiting the Number of each Sex, Total Number in each Month, and at different Periods of Age.

8	EX, MONTHS,				CAUS	ES OF D	EATH,-	-1882.			
	AND AGES.	Cancer.	Cepha- litis.	Croup.s	Diar- rhea.b	Diph- theria.	Dysen- tery.c	Measles.	Scarlet Fever.	Typhoid Fever.	1 1ng
	Total	301	276	349	259	1,416	96	150	592	463	Cough.
i	Males	139	156	212	144	671	56	82	276	269	43
4	Females	162	120	137	113	745	40	68	316	193	43
	Unknown									1	
	January	16	15	44	2	121		14	43	31	4
	February	19	19	21		124		8	56	34	3
	March	26	22	24	6	118	6	13	64	30	10
	April	21	27	23	9	115	1	16	37	18	9
	May	27	17	32	5	96	2	18	50	33	1 13
	June	. 29	20	19	15	94	6	19	48	30	6
ā	July	23	23	19	33	85	13	15	33	20	_
00 T NAM	August	36	25	12	73	90	20	9	39	27	5
4	September	25	42	22	73	94	33	7	41	52	14
	October	29	29	31	26	132	13	12	54	91	7
	November	23	13	49	11	192		7	67	53	4
	December	23	22	53	6	150	2	11	59	40	7
	Unknown	4	2			5		1	1	2	4
	Av. Monthd	25	23	29	.22	118	8	12	49	_	
	(Under 5	5	172	293	227	l 613	73	102	327	38	7
	5 to 10	1	32	49	3	471	8	23	172	36	81
	l 1 10 to 15	1	23	5	1	217	1	5	52	33	4
	15 to 20	1	8	l	 	74	1	8	20	54	
	20 to 25	1	8		2	17		3	10	72	•
	25 to 30	7	6		2	6	1	3	7	90	
	30 to 35	7	1		. 1	1	1	1	2	32	
	35 to 40	14	5		1	3	1	1	2	33	
	40 to 45	25	3		3	5	2	2		13	
ACEB	45 to 50	29	0   2	1	"		2	1 -		10	
٩	50 to 55	29	5	1		1	-			19	
	1	28	2		2	1		1		16	
	55 to 60	36	2		3	•	1			12	
	60 to 65				ļ		1			14	
	65 to 70	40	2		6		1		1	3 .	
	70 to 75	39				1	1			10 .	
	75 to 80	15								2 .	
	80 and over	15			5		2	·····		3 .	
_	Unknown	8	5	1	3	6		1	1	11	1
	Includes 46 Mer	mbranou	s Croup	, b In	cludes 1	0 Chroni	c. c I	ncludes	3 Chronic	4 17	

<sup>•</sup> Includes 46 Membranous Croup. • Includes 10 Chronic. • Includes 3 Chronic. • Excluding unknown month.

PABLE XX.—Per Cent of Deaths returned as having occurred in Michigan during the Year ending December 31, 1882, from each of Ten Specified Causes to Deaths from All Causes; and Per Cent of each Sex, of Deaths in each Month, and at different Periods of Life, to Total Deaths from each Specified Cause.

				_			_			_	
S	EX, MONTHS,			CAUSES	OF DEA	ти, 1882.	-PER C	ENT OF T	COTAL		
	AND AGES.	Cancer.	Cepha- litis.	Croup.	Diar- rhea.	Diph- theria.	Dysen- tery.	Measles.	Scarlet Fever.	Typhoid Fever.	Whoo ing Cough
er.	Ct. of All Causes	1.83	1.68	2.12	1.58	8.62	.58	.91	3.60	2,82	
19	Males	46.18	56.52	60.74	55.60	47.39	58.33	54.67	46.62	58,10	50.0
SEA.	Females	53.82	43.48	39.26	44.40	52.61	41.67	45.83	53.38	41.68	50.
2	Unknown				****					.92	
19	January	5.32	5.44	12.61	.77	8.55		9.33	7.26	6.70	4.
	February	6.31	6.88	6.02	*******	8.76		5,33	0.46	7.34	3,
1	March	8.64	7.97	6.88	2.32	8.33	6,25	8.67	10.81	6.48	11.
	April	6.98	9.78	6.59	3:47	8.12	1.04	10.67	6.25	3.89	10.
	May	8.97	6.16	9.17	1.93	6.78	2 08	12.00	8.45	7.56	15.
	June	9.63	7.25	5.44	5.79	6.64	6.25	12.67	8.11	6.48	63
GIF.	July	7.64	8.33	5.44	12.74	6.00	13.54	10.00	5.58	4.32	5.
MONTHE	Angust	11.96	5.06	3.44	28.19	6,36	20.84	6.00	6.59	5.83	16,
1	September	8.31	15.22	6.30	28.19	6.64	34.38	4 67	0.91	11.21	8.
19	October	9.63	10.51	8.88	10.04	9.32	13.54	8.00	9,12	19.66	4
1	November	7.64	4.71	14.04	4.25	13.56		4.66	11.32	11.45	8,
	December	7.64	7.97	15.19	2.31	10.59	2.08	7.33	9.97	8.64	4
9	Unknown	1.33	.72			.35		.67	.17	.43	
1	Av. Montha	8.22	8.27	8,33	8.33	8.30	8.33	8.29	8.32	8.30	8
1	Under 5	1.66	62.32	83.95	87.64	43.29	76.04	68.00	55.24	7.76	94
ı	5 to 10	.33	11,60	14.04	1.16	33.26	8.34	15.33	29.05	7.13	4
	10 to 15	.33	8.33	1.43	.38	15.33	1.04	3.33	8.78	11.66	
	15 to 20	.33	2.90			5.23	1.04	5.33	3.38	15.55	
1	20 to 25	.33	2.90		.77	1.20		2 00	1.69	19.44	
	25 to 30	2.32	2.18		.77	:43	1.04	2.00	1.18	6.91	
	30 to 35	2.32	.36		.39	.07	1.04	.67	.34	7.13	
	35 to 40	4.65	1.81		.39	.21	1.04	.67		2.81	
	40 to 45	8.31	1.09		1.16	,35	2.09	1.33		2.16	
	45 to 50	9.64	.73	.29			2.09			4.10	
4	50 to 55	9.63	1.81			.07		.67		3.46	
	55 to 60	9.30	.72		.77	.07	1.04	1		2.59	
	60 to 65	11.96	.79		1.16		1,04			3.02	
	65 to 70	13.29	.72		2.32		1.04		.17	.65	40000
	70 to 75	12.96			2.02	.07	1,04			2.16	
	5 to 80	4.99				.01	1,04			.43	
	and over	4,08	****	*******	1.93		2.08			.65	
	And or er	9,1/5	1.81	.20	1.16	.42	2,00	.957	.17	2 38	1

linding deaths in unknown month.

Cancer.—The number of deaths reported from cancer, including the various kinds, was 301, or 1.83 per cent of the deaths from all causes. The annual average number for the ten years 1873–1882, is 250. There was a constant annual increase in the mortality from this disease from 1871 to 1881. The average annual excess of deaths among females over that among males from cancer for ten years is 35. In 1882, the largest number of deaths from cancer occurred in the month of August, and the mortality was also the greatest among those from sixty-five to seventy years of age.

Exhibit S specifies what part of the body was affected, where that fact was noted, among the decedents from cancer in 1882. In more than half of the cases (54.82 per cent) the part of the body affected was not stated. So far as reported, cancer of the stomach exceeded all others by a large majority, and

this has been the case in previous years.

EXHIBIT S.—Deaths from Cancer Returned as having occurred in Michigan during the Year 1882, indicating part of body affected.

AS RETURNED.	Total.	Malos.	Fe- males.	AS RETURNED.	Total.	Males.	Fe. males.
Aggregate	301	139	162	Cancer of Rectum	1	1	*****
-	-	-	-	Cancer on Back	1	1	****
Cancer	165	77	88	Cancer on Head	3	2	
Cancer of Stomach	62	36	26	Cancer of Neck	1	1	*****
Cancer of Œsophagus	1		1	Cancer of Bowels	5	1	4
Cancer of Kidney	2	2		Cancer of Knee	1	1	
Cancer of Womb	20	*****	20	Cancer of Throat	1	1	
Cancer of Breast	15		15	Cancer of Groin	1	1	
Cancer of Face	11	7	4	Cancer of Foot	1	1	
Cancer of Side	2	1	1	Cancer of Lungs	1		1
Cancer of Liver	7	6	1	Cancer of Pancreas	1	*****	1

Cholera Infantum.—There were 428 deaths returned from this cause in 1882, a number less by 429 than was returned in 1881, and less by 71 than was returned in 1880. The average annual number for the ten years 1873–1882, is 390, which is somewhat less than has been returned for the last three years. The percentage of deaths from cholera infantum to deaths from all causes, in 1882, was 2.61. In 1881 it was 4.46, and in 1880 3.10 per cent of the deaths from all causes. The average percentage, during the last ten years, of deaths from this disease, as compared with deaths from all causes, was 2.64.

Although deaths were reported in every month, 360 or 84 per cent of the whole number, occurred in the months of July, August, September, and October. The greatest mortality was in August, when there were 138 deaths; the least was in January when there were only 4. Deaths from cholera infantum were reported by nearly all the counties of the State in 1882, but it

was most fatal in the large cities.

Measles.—Only 150 deaths were returned from this cause in 1882, a number less by 106 than was returned in 1881. The average annual number for ten years 1873-1882, is 132. In all the years the deaths from measles were divided nearly equally between the two sexes. The largest mortality occurred in the months of April, May, and June, and the least was in September and

November. The first six months of the year show a considerably larger number of deaths than the last six months. One hundred and two of those who died were less than five years of age; these comprised sixty-eight per cent of the whole number, and those under 10 comprised S3 per cent. One person

died over fifty years of age.

Whooping-cough.—According to the returns, only 86 deaths from whooping-cough occurred in this State in 1882, as compared with 142 in 1881, and 264 in 1880. The annual average number for the fourteen years 1869-1882, is 150. There was an equal representation from each sex, 43 males and 43 females, but in previous years there has been an excess of females for every year except 1872 and 1873. Of the 86 deaths, 81 or 94.19 per cent, were of children under 5 years of age. There were 14 deaths in August; 13 in May; 10 in March; 9 in April; 7 each in September and November; 6 in June; 5 in July; 4 each in January, October, and December; and 3 in February.

Small-pox.—This dreaded disease showed, in 1881, a decided increase, its mortality throughout the State amounting to 82, or more than five times that reported in the previous three years. The deaths were divided among the following counties: Antrim 13, Delta 4, Jackson 1, Kent 4, Leelanaw 42, Mecosta 1, Montcalm 3, Oakland 2, St. Clair 1, and Wayne 11. The excessive mortality in Antrim and Leelanaw counties was largely among the Indians, and was over sixty-seven per cent of the whole number of deaths from smallpox. The beginning of the mortality was in the month of March, 1881, as in that month was recorded the first death. From this point we observe a nearly regular increase to November, 1881, when the highest monthly mortality was reached. The disease continued during the year 1882 with more or less deaths in each month, until in November there were only two deaths reported. In 1882, the largest mortality occurred in July, and the counties reporting deaths were as follows: Allegan 1, Antrim 2, Calhoun 5, Genesee 6, Ionia 9, Kalamazoo 2, Kalkaska 3, Kent 22, Manistee 4, Marquette 2, Mason 2, Menominee 21, Newaygo 2, Saginaw 3, St. Clair 2, Tuscola 1, and Wayne 13.

The following tabular exhibit presents the total mortality from small-pox in Michigan during fourteen years, with the per cent of deaths from this

disease to deaths from all causes.

Deaths from Small-pox in Michigan,—Fourteen Years. Number and Percentages.

YRAR.	Deaths from All Causes,	Deaths from Small-pox.	Per Cent of Deaths from Small-pox to Deaths from All Causes.	YEAR,	Deaths from All Causes.	Deaths from Small-pox.	Per Cent of Deaths from Small-pox to Deaths from All Causes.
1869	9,145	42	.46	1876	12,576	76	.60
1870	10,766	9	.08	1877	12,919	102	-79
1871	9,728	73	.75	1878	12,766	6	05
1872	13,371	302	2.26	1879	14,407	6	.04
1873	14,258	90	.63	1880	16,102	3	.02
1874	12,500	18	-14	1881	19,238	82	.43
1875	11,990	26	.22	1882	16,425	100	.61
Average.					13,299	67	.51

It is worthy of notice that the disease appears to move in wave-like periods through a series of years. The years 1871, 1872, 1876, 1877, 1881, and 1882 indicate the greatest activity of small-pox in Michigan, while the years immediately following show a marked decrease in the number of deaths. The sudden rise from three deaths in 1880 to eighty-two deaths in 1881, is especially

worthy of observation.

By reference to Table XVII., on page 251, the ages of those who died from small-pox may be seen for the year 1882. Twenty-four per cent of those dying were under five years of age, and 28 per cent were between the ages of fifteen and twenty-five, while those who died under the age of twenty-five constituted 68 per cent of the whole number. Of those dying in 1881 over 28 per cent were under five years of age, and over 62 per cent of the total number of deaths were under the age of twenty-five.

### METEOROLOGY, AND ITS RELATION TO DEATHS.

The following tables, exhibits, and diagrams show some of the results of meteorological observations made by observers for the State Board of Health and for the U. S. Signal Service, at various stations throughout the State, during the year 1882, and also at the State Agricultural College. It is thought that the average of these observations, as tabulated, shows with sufficient accuracy the atmospheric conditions of the whole State. The value of studying meteorological statistics in connection with those of deaths has long been considered of great importance, and this is now universally recognized. Much useful information may be gained by comparing these tables with those of deaths from some of the most important causes. We here study the occurrence of deaths from different diseases, in regard to season, prevailing winds, humidity of air, ozone, and atmospheric pressure.

The months in these tables are arranged in order, those in which occurred the greatest number of deaths are placed first, the other months following in

the order of their mortality.

The weather record during 1882, as indicated by the temperature, and as recorded at the Agricultural College, may be seen in Exhibit 10. The annual average temperature for 1882 was 47.57°, which was .84 of a degree higher than the average for ten years, and 1.16° lower than the average for 1881. The month of May was unusually cold, over six degrees colder than the average for ten years; while the month of February was remarkably mild, nearly eleven degrees warmer than the average for ten years.

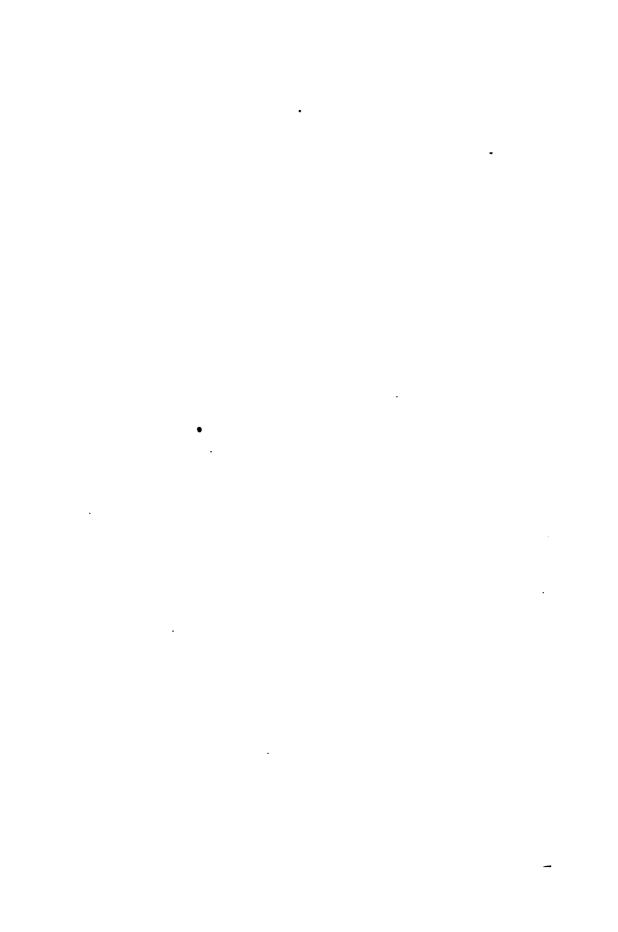


Diagram No. 4.

Average Simporature, by months, for the years 1879, 1880. 1881, and 18, and the Iverage for 10 years Ending with 1882, at by Agreeultural bollege, men Lansing, Michigan.	82
Part & 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	De
72 70 68 66 64 62 60 58 56 54 52 50 48 46 44 42 40 38 36 34 32 30 28 26 24 24 24 24 24 24 24 24 24 24	manus the 24.26

EXHIBIT 10.—Temperature.—Average by Years and by Months, for the Years 1873 to 1882, inclusive, at the Agricultural College, near Lansing, Michigan. (Results of Observations by Prof. R. C. Kedzie.)

TOTAL	Annu-		AVERA	GE TE	MPEBA	TURE, 8	STATED	IN DE	GREES	FARE.,	BY M	ONTHS.	
YEARS.	al Average.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1873	44.54	15.87	19.10	28.30	43.17	56.98	70.60	70.82	69.49	57.38	44.68	28.49	29.5
1874	47.32	27,70	25,51	32.30	36.87	59.58	70.61	72.02	69.39	62.85	49.10	35.00	26.9
1875	43.09	12.87	8.35	26,20	41.11	60.82	66.57	69.67	65.48	58.50	42.93	32,96	31,5
1876	46.17	30.22	27.38	30.55	44.16	57.95	68.14	72.48	71.55	56.30	43.74	36.33	15.2
1877	47.42	18.07	32.31	24-51	46.16	58.25	65.93	71.43	68.46	61.28	50.83	35.24	36,5
1878	48.29	29.11	28.07	40.90	50.55	54.57	64.08	73.04	70.15	63.15	48.33	36.29	21.2
1879	46.88	19.19	20.40	33.19	44.84	58.76	66,02	74.03	70.00	56.21	57.28	38.22	27.4
1880	47.28	37.10	29.19	35.50	45.87	64 30	67.60	68.04	68.58	55.83	46.23	27.52	22.0
1881	48.73	16.98	21.58	30.28	45.59	65.24	64.31	73,43	72.69	69.69	52.51	38,20	34.3
1882	47.57	24.89	85.12	35.98	44 70	52.73	66.49	67.71	69.52	59.98	52.67	38.30	24.8
Av. for 10 Years.	40.73	23,20	24.70	31.77	44.30	58.92	67.04	71.27	69.53	60.12	48.83	34.46	26.9

a Average for 10 years ending with 1882.

EXHIBIT 11.—Absolute Humidity.—Grains of Vapor in a Cubic Foot of Air, by Months, for the Years 1873 to 1882, inclusive, at the Agricultural College, near Lansing, Michigan.

YEARS.	Annu-		6	BAIN5	or VA	POR IN	Curio	FOOT	or An	, BY M	lontus		
	Aver- age.	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1873	3,36	1.14	1.43	1.52	2.71	4.00	5.85	6.45	6.29	4.50	2.03	1.73	1.8
1874	3.36	1.58	1.55	2.00	2.08	3.77	6,07	0.00	5.75	4.72	3.15	2.06	1.5
1875	3.11	0.92	0.73	1.63	2.12	3.74	5.17	5.91	5.22	4.38	2.57	1.84	2.0
1876	3.40	1.88	1.57	1.78	2,26	3.93	5.95	6.76	6.31	4.43	2.56	2,26	1.09
1877	3.45	1.19	3.85	1.53	2.47	3.79	5.32	5.76	5.74	4.82	3.59	2.22	2,3
1878	3.69	1.82	1.91	2.80	3.51	3.68	5.05	6.83	6.06	5.18	3,38	2.44	1.6
1870	3,43	1.31	1.23	1.93	2.64	3.94	5.09	6.30	5.58	4.40	4.61	2.46	1.7
1880	3.71	2.22	1.92	1.97	3.02	5.02	6,03	6.20	6.32	4.98	3.31	1.93	1.5
1881	3.78	1.08	1.66	1.93	2.65	5.21	5,40	6.65	6.09	5.86	4.13	2.47	2.2
1889	3.60	1.72	2.11	2.18	2.79	3.48	5,51	5.57	6.63	5.04	4.00	2.47	1.7
Av. for 10 years.	3.49	1.49	1.60	1.93	2.62	4.06	5,54	6.24	6.00	4.83	3.43	2,19	1.7

<sup>·</sup> Average for 10 years ending with 1882.

for for 10 years en fancing . mix has 29160 29.116 29120 29.080 29.060 29.040 29.020 29.000 28.980 28960 28940

28.920

22900

28,880

<sup>\*</sup> beal = 055 to the mich.

EXHIBIT 12.—Pressure of the Atmosphere.—Observations of Barometer reduced to freezing point, and corrected for Instrumental error (+.12) previous to 1876, for each of the years 1873 to 1882, inclusive, and the Average for 10 Years ending with 1882, at the Agricultural College, near Lansing, Michigan. (Based upon Observations by Prof. R. C. Kedzie.)

YEARS.	Annu-	Pı	RESSURI	OF TH	E ATMO	SPHERE	BY MO		CHES O	P MERC	URIAL (	COLUMN	•
	Aver-	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
1873	28.994	28.993	28 967	28.972	28.918	28.946	28.960	29.034	29.047	29.046	29.037	28.953	29.04
1874	29.055	29.168	29.048	29.015	29.061	28.984	28.998	29.027	29.044	29.066	29.073	29.057	29. 12
1875	28.998	29.005	28.875	28.844	29.047	29.061	29.029	29.044	29.025	29.031	29.016	29.054	28.950
1876	29.010	29.073	29.063	28.929	29.000	29.009	28.911	29.009	29.048	28.995	28.929	28.953	29.20
1877	29.066	29.057	29.124	28.981	28.974	29.056	29.020	29.062	29.046	29.121	29.077	29.099	29.18
1878:	29,053	29.099	29.026	29.027	28.875	29.013	29.030	29.085	29.010	29.157	29.080	29.081	29.14
1879	29.080	29.130	29.107	29.102	29.050	29.116	29.073	29.057	29.100	29.152	29.160	29.027	29.03
1880	29.096	28.995	29.077	29.181	28.984	29.061	29.065	29.068	29.126	29.093	29.130	29.215	29.15
1:81	29.087	29.077	29. 152	28,899	29.064	29.116	29.018	29.063	29.117	29.077	29.181	29.120	29.18
1982	29.094	29.134	29.041	29.098	29.068	29.065	28.959	29.096	29,062	29.186	29.112	29.175	29.11
A7	29.053	29.073	29.048	29.005	29.006	29.043	29.006	29.058	29.063	29.093	29.080	29.073	29.10

<sup>.</sup> Average for 10 years ending with 1882.

TABLE XXX.—By Months, some Meteorological conditions at Certain Localities in Michigan during the Year 1882.

		ALPEN	ALPENA, MICH.			DKTROI	DRTROIT, MICH,		G.	AND HA	GRAND HAVEN, MICH.	юн.	M	RQUET	MARQUETTE, MICH.	
MON1115, 1882.	Aver- age Bar- ometer.	Average Temp., Fahr.	Total Rainfall in Inches.	Prevail. ing Winds.	Average Barometer.	Aver- age Temp- Fahr.	Total Rainfall in Inches.	Prevail- ing Winds.	Aver- age Bar- ometer.	Aver- age Temp., Fahr.	Total Rainfall In	Prevail- ing Winds,	Aver. age Bar- ometer.	Aver- age Temp., Fahr.	Total Rainfall in Inches.	Prevail- ing Winds.
YEAR, 1882	29.360	42.68	45 10	W.	29.288	51.20	30.31	W.	39.354	48.18	42.16	×.48 ≅.99	29.283	42.28	37.08	N. W.
January	29.378	20.20	3.70	W.	29.387	31.00	1.97	`.	29.415	27.90	8.59	W.	29.262	80.88	1.10	₩.
February	29.357	88.69	2.56	& & &	29.315	39.90	1.91	<u>#</u>	29.328	35.90	3.00	E. & S.	29.210	28.10	3.41	8. W. & N. W.
March	20.378	27.30	<b>4</b> 62	N. W.	39.321	39.80	3.34	. <u>*</u>	29.358	35.30	5.83	N. W.	20:305	27.60	2.75	N.W.
April	39.385	38.70	2 65	N. W.	29.292	45.90	1.13	z z K	29.368	43.60	2.17	N. W.	29.364	38.50	2.48	N.W.
May	29.374	44.40	4.40	8. E	29.22	53.20	4.82	N. E.	29.329	2130	20.4	Z.	29.318	46.00	36 88	ż
June	29.217	57.77	99.9	N. W.	29,103	67.30	8.70	. W.	29.218	62.80	88	Ä.	29.178	26.50	3.8	ż
July	29.325	63.90	1.48	₩.	29.241	70.10	1.65	တ်	29.351	68.40	3.73	တ်	29.247	62.90	2.76	₩.
August	20.344	65.41	6.60	Ħ	29.220	71.30	4.43	ス. 田. お. あ.	29.323	68.80	2.77	Z.	20:303	62.40	3.62	કે.સ્
September	29.437	58.10	2.51	₩.	29.311	64.20	1.77	Ħ	29.419	62.20	.81	N. E.	20.364	26.90	5.80	₩.
October	29.357	20.30	3.12	Α.	29.288	57.80	2 48	øż	29.343	54.70	4.82	X. E. E. E. E. E. E. E. E. E. E. E. E. E.	29.236	50.10	5.84	S. & W.
November	29.437	35.40	4.27	₩.	29.398	43.00	1.66	₩.	29.433	40.40	2.40	Z. S. S. S. S. S. S. S. S. S. S. S. S. S.	29.362	35.40	191	Z * × ×
December	29.331	27.30	2.44	₩.	29.349	31.00	1.50	×	29.360	28.20	2.76	.₩	29.261	24.10	7.55	N.W.
Average Month	39.360	42.68	3.78	¥.	88.288	51.20	2.63	. ₩	29.354	48.18	3.51	N.E.&S.	20.283	42.28	3.09	N.W.

EXHIBIT 14.—All Causes.—Deaths Returned as having occurred in Michigan from All Causes, by Months, during the Year 1882, and some coincident Meteorological conditions reported to the Office of the State Board of Health, by various Observers in the State.

PRESSURE OF ATMOS- PHERE,—INCHES OF MERCURY, (Reduced to 32° F.)		Average Daily.	.911 29.138	.225 g 29,135	.148 29.202	.200 g 29.134	.158 # 29,123	.095 g 29,112	.189 29.224	.362 29.149	.911 29.188	.192 g 29,153	.123 29.118	.163 29.001	.330 99.191	.838 c 29.186
PRESSURI PHERE,— ME (Reduce	Range of Barometer	Monthly, and Year.	1.461	706.	757	.767	.810	525	916	1.299	916.	1.053	.673	794	1.346	1.151
nt ,wone	Melted nches.	f bas ulsH	37.25	2.01	1.63	2.92	f 4.45	r 5.61	2.24	13.66	3.10	12.17	19.47	5.40	19.72	11.97
by Regis-	-unoE	Average V Miles per I tering Ane	9.6	10.1	7.5	8.6	10.1	6.9	8.6	11.8	9.6	11.3	8.0	8.7	11.7	11.5
В В = 10.	от ж	Night-9 P.	3.50	v 4.08	2.40	9.79	e 8.99	2.64	3.14	. 4.61	3.50	3 99	e 2.67	* 3.34	4.20	4.16
OZONE-RELA- TIVE. MAXIMUM = 10.	201 "	Day—7 A. M	3.41	* 3.51	3.88	3.13	e 3.79	3,19	2.95	e 3.74	3.41	3.85	0 2.94	3.47	3.75	3.68
BITY SPHERE, ONTHLY AGES.	n ul	Weight, in of Vapor Cubic Foo	3.48	1.59	5.03	3.95	3.30	6.47	2.46	90%	3.48	2.59	5.52	5.90	2.03	1.63
НОМІВІТУ ОГ АТМОВРИВІВ, ЕТС. — МОКТИLУ АУВИЛОВЯ.	10,10	Relative H ity, or Per Saturation	76	86	77	20	19	81	7.9	17	76	88	70	17	11	18
	na an		47.14	d 25.72	61.70	53.53	51.04	69.05	d 37.90	d 34.12	47.14	42.65	d 67.84	d 64.43	33.42	24.32
TEMPER DRG, F	Av. Dally Range durbe Day and durbe Day and Colwing Might, on the Colwing Might, on the Colwing Might and the Colwing Might are the			c 12.43	18.81	19.77	19.65	e 16.80	e 13.51	c 15.89	17.43	e 19.08	e 20,25	c 20.33	16.52	15.70
2i	Av. Dally Range			17.39	8.70	6.52	10.87	8.70	10.87	6.52	8.33	4.35	10.87	4.35	8.69	2,17
LATES REPORTED FROM ALL CAUSES, 1882.	Per Cent of Total.	Females.	100.00	9.52	9.35	9.54	8.94	8.81	8.59	8.56	8.33	8.17	7.80	7.61	7.48	5.93
L CAU	r Cent	Males	100.00	9.64	9.55	9.11	9.14	8.96	8.77	8.25	8.33	7.91	7.88	7.86	6.88	6.05
вож Ал	P	JatoT	100.00	9.61	9.45	9.17	9.09	8.80	8.69	8.30	8.33	8.03	7.86	7.73	7.16	5.98
E C		Unknown,	46	00	4	00	10	*	20	00	4	01	NG.	04	*	1
RPORT	er.	Females.	7,638	727	714	200	688	678	656	654	636	624	296	189	571	453
ATHS R	Number,	Males.	8,663	835	827	780	792	776	260	715	795	689	683	681	596	524
DE		.fafoT	16,347	1,570	1,545	1,498	1,480	1,453	1,421	1,372	1,362	1,311	1,284	1,264	1,171	978
ONTHS IN ORDER	SPORTED DEATHS	NEATEST FIRST.	ar, 1882	[ December	September	october	Muy	Angust	November	(March	erage	[April	July	ad June	February	(January

More than the Number of

Yen

RE GR

Less than the Av. No. of \* See foot-note to Exhibit K, page 278.

\* Exceptions to the proposition that the Average in months who more than the average number of deaths occurred, and vice versa.

\* Exceptions to the Average Daily Temperature was greater than the average in months when more than the average number of deaths occurred, and vice versa.

\* Exceptions to the proposition that the Rain-fail was terrage in months when more than the average number of deaths occurred, and vice versa.

\* Exceptions to the proposition that the Rain-fail was tear than the average in months when more than the average number of deaths ber of deaths occurred, and vice versa.

\* Exceptions to the proposition that the Rain-fail was tear than the average in months when more than the average number of deaths ber of deaths occurred, and vice versa.

\* Exceptions to the proposition that the Atmospheric Pressure, as indicated by the Barometer, was greater than the average in months when more than the average number of deaths occurred, and vice versa.

EXHIBIT K .- Croup. - Deaths Returned as having occurred in Michigan from Croup, by Months, during the Year 1882, and some coincident Meteorological conditions.

		CR	ROM COUP, 882.	DEG	PERA- RE, RES IR	Нс	RE, ET	C., MOS	THLY	OZON RELAT MAXI =1	MUM	r Hour,—		(Barom.
D	MONTHS N ORDER BY NUMBER OF EATHS FROM CROUP, GREATEST FIRST.	Number,	Per Cent of Total.	Av. Daily Range during Day and following Night, by Reg. Thermometers. Obs. at 7 A. M.	Av. of Dally Observations at 7 A.	Relative Humidity, or Per Cent of Saturation.	Weight, in Grains, of Vapor in a Cubic Foot of Alr.a	Weight, in Troy Ounces, of Va- por Inhaled by one person in 24 hours.b	Weight, in Troy Ounces, of Vapor Exhaled from Air Passages in 24 hours in excess of vapor inhaled.c	Day,-7 A. м. to 2 P. м.	Night,-9 F. M. to 7 A. M.	Average Velocity of Wind, Miles per Hour,-by Registering Anemometer,	Rainfall in Inches.	Average Pressure of Atmosphere, eter Reduced to 32° Fahr.)
Year	r, 1882	4349	100.00	17.43	47.14	76	3.48	2.18	9.50	3.41	3.50	9.6	37.25	29.138
	December	53	15.19	12.43	25.72	82	1.59	.99	10.69	3.51	4.08	10.1	2.01	29.135
at hs	November	49	14.04	13.51	37.90	79	2.46	1,54	10.14	2,95	3.14	8.6	2.24	29,224
De	January	44	12.61	15.70	24.32	81	1,53	.96	10.72	3.68	4.16	11.5	1.97	29, 186
No. of Deaths.	May	32	9.17	19 55	• 51.04	67	3.30	2,06	9.62	3.79	3.99	10.1	4.45	29, 123
N	October	31	8.88	19.77	e 53 53	76	3.95	f 2.47	9.21	3.13	2.72	8.6	2.92	29.134
Ave	rage	29	8.33	17.43	47, 14	76	3.48	2.18	9.50	3 41	3.50	9.6	3.10	29.13
	March	24	6.88	15,89	* 34.12	77	2.06	t 1.29	10.39	3.74	4.61	11.8	3.66	29.14
9	April	23	6.59	19.08	e 42.65	68	2.59	1 1.62	10.06	3.85	3,99	11.1	2.17	29.15
B.	September	22	6.30	19,31	61.70	77	5.03	3.14	8.54	2.88	2.40	7.5	1.63	29.20
of Deaths.	February	21	6.02	16.52	e 33.42	77	2,03	f 1.27	10.41	3.75	4.20	11.7	2.72	29.11
of I	June	19	5.44	20.33	64.43	71	5.20	3.25	8.43	3.47	3.34	8.7	5.40	29.00
of Deaths.	July	19	5.44	20,25	67.84	70	5.52	3.45	8.23	2.94	2.67	8.5	2.47	29,11
4	August	12	3.44	16.80	69.05	81	6.47	4.04	7.64	3.19	2.64	6,9	5.61	29.11

Croup.—The number of fatal cases of croup was 349 in 1882, which is 31 less than in 1881, though still larger than for any other year, and 139 larger than the average for the fourteen years 1869-1882. There were 212 males and 137 females, which is a larger proportionate number of males than usual. The greatest mortal was in December, when there were 53 deaths; the were only 12. 61.33 per cent of all the aix cold months, -January, P. r; against 38.67 per cent

a Calculated from readings of Dry Bulb and Wet Bulb Thermometers.
b Calculated for 18 respirations per minute, of 20 cubic inches of air each.
c Assuming the air exhaled to be saturated with vapor at the temperature of 98° F., each cubic foot containing 18.69 grains, 18 respirations per minute, of 20 cubic inches of air each, making 11.65.
Troy ounces of vapor exhaled daily. No correction made for expansion of air after being inhaled.
d Includes 46 deaths from Membranous Croup.
Exceptions to the proposition that more than an average number of deaths from croup occurred in months when the Average Daily Temperature was less than the average, and vice versa.

f Exceptions to the proposition that more than an average number of deaths from croup occurred in months in which there was less than the average quantity of vapor inhaled, and vice versa.

in the six warm months. As regards age, it appears that 293 cases, or 83.95 per cent of the whole number, occurred among those under 5 years of age;

49, or 14.04 per cent of the whole, between 5 and 10 years.

Exhibit K shows certain meteorological data in connection with deaths from croup. There were five exceptions to the proposition that the air was colder than the average in months when the greatest number of deaths from croup occurred, and warmer than the average in months in which less than the average number of deaths occurred. There were also four exceptions to the proposition that more than the average number of deaths from croup occurred in months in which there was less than the average quantity of vapor inhaled, and vice versa,

EXHIBIT L.—CROUP AND DIPHTHERIA.—Deaths Returned as having occurred in Michigan from Croup and Diphtheria, by Months during the Year 1882, and some coincident Meteorological conditions.

	MONTHS ORDER BY	DIPHT	S FROM P AND HERIA, 182.	TEMPER DEGI FAI	TEES	139	PHE	RE, ET		Ozo Rela Maxi =	mum	Miles Per nometer.	o Fahr.)
DEA CR DIP	MBER OF THS FROM OUP AND HTHERIA, REATEST FIRST.	Number.	Per Cent of Total.	Average Daily Range during Day and fol'ng Night, by Keg. Thermometers, Observed at 7 A. M.	Average of Dally Observa- tions at 7 A. M., 2 P. M., and 9 P. M.	Relative Humidity, or Per Cent of Saturation.	Weight in Grains, of Vapor in a Cubic Foot of Air.a	Weight, in Troy Ounces, of Vapor Inhaled by one Person in 24 hours.	Weight, in Troy Ounces, of Vapor Exhaled from Air Passages in 24 hours in excess of vapor inhaled.a	Day-7 A. м to 2 P. м.	Night-9 r. m. to 7 A. M.	Average Velocity of Wind, Miles P. Hour, by Registering Anemometer.	Average Pressure of Atmosphere, (Barometer Reduced to 32° Fahr.)
Year,	1882	ь 1,760	100.00	17 43	47.14	76	3.48	2.18	9.50	3.41	3.50	9.6	29,138
pe	( Nov	241	13.69	13.51	37,90	79	2.46	1.54	10.14	2,95	3.14	8.6	29,224
Av. No. of Deaths.	Dec	203	11.53	12.43	25.72	82	1.59	.99	10.69	3.51	4.08	10.1	29.135
v. No. o	Jan	165	9.38	15.70	24.32	81	1.53	.96	10.72	3,68	4.16	11.5	29.186
Mon	(Oct	163	9,26	19.77	c53.53	76	3.95	d 2,47	9.21	3.13	2.72	8.0	29.134
Avera	ge	147	8.33	17.43	47.14	76	3.48	2.18	9.50	3,41	3.50	9.6	29,138
	Feb	145	8.24	16.52	< 33.42	77	2.03	d 1.27	10.41	3.75	4.20	11.7	29.121
Ž,	March	142	8.07	15.89	e 34.12	77	2.06	J 1.29	10.39	3.74	4.61	11.8	29.149
rag.	April	138	7.84	19.08	· 42.65	68	2.59	4 1.62	10.06	3.85	3.99	11.1	29.153
Ave	May	128	7.27	19.55	51.04	67	3.30	4 2.06	9.62	3.79	3.99	10,1	29.123
Less than the Average No. of Deaths.	Sept	116	6.59	19.31	61.70	77	5.03	3.14	8.54	2.88	2.40	7.5	29,202
han	June	113	6.42	20.33	64.43	71	5.20	3.25	8.43	3.47	3.34	8.7	29.001
88	July	104	5.91	20.25	67.84	70	5.52	3.45	8.23	2.94	2.67	8.5	29,118
A	Aug	102	5.80	16.80	69.05	81	6.47	4.04	7.64	3.19	2,64	6.9	29,112

<sup>.</sup> See foot-note to Exhibit K, page 278.

age, and vice versa.

4 Exceptions to the proposition that more than an average number of deaths from croup and diphtheria occurred in months in which there was less than the average quantity of vapor inhaled, and vice versa.

b Excluding 5 deaths in unknown month.

Exceptions to the proposition that more than an average number of deaths from croup and diphtheria occurred in months in which the Average Daily Temperature was less than the average pairs which the second proposition is a second proposition of the second proposition.

Croup and Diphtheria.—The deaths from croup and diphtheria, for the year 1882, may be studied in connection with meteorological conditions in Exhibit L. The distinction between these two diseases has always been obscure, and they are considered by many to have pathological conditions in common, and for this reason the deaths from them are united. Allowance is thus made for incorrect diagnosis on the part of physicians, as it is quite likely that some deaths of children reported from diphtheria would have been more properly placed under croup, and vice versa.

The same propositions are made as in Exhibit K, and it will be seen that there are five exceptions to the proposition that more than the average number of deaths from croup and diphtheria occurred in months in which there

was less than the average quantity of vapor inhaled, and vice versa.

Diphtheria.—The number of deaths from this cause in 1882, was 1,416, a decrease since last year of 647, when the percentage to all deaths was 10.72. This year the percentage is reduced to 8.62 per cent. The gradual rise of diphtheria through a series of years is a very interesting fact, made evident by registration. The number of fatal cases during the past ten years, 1873—1882, has been as follows:

1873	1874	1875	1876	1877	1878	1879	1890	1881	1682
217	213	207	311	593	887	1,473	1,542	2,063	1,416

We here observe a steady increase from 1875 to 1881, culminating in the year with 2,063 deaths. In 1882 there was quite a falling off in the mortalist from diphtheria, it being less than for any year since 1878. The annual average number for the ten years 1873–1882, is 892, which is only five more than was returned in 1878. The annual average number for the last four years 1,624.

With regard to the ages of those who died from diphtheria in 1882, we find by reference to Table XVII., page 228, that 613, or 43.29 per cent of the whole number, were children under five years of age, that 1,084, or 76.55 per cent were under 10 years of age, and that 1,301, or 91.88 per cent were under fifteen years of age. The first three and the last three months of the year contributed over 59 per cent of the deaths from diphtheria, but the last three months of the year constituted the most fatal season, the month of November having the largest mortality for the year. The autumn months are always the most fatal, and this may be due to the fact, as has been suggested in a previous report, that the public schools are opened about that time, and thus the disease is communicated from one to another. The fact that there a re usually more deaths among females than among males from diphtheria here previously observed, and the year 1882 is not an exception to the rule, there being 745 deaths among females against 671 deaths among males.

The prevalence of diphtheria in different parts of the State may be seen

the following table:

STATE, AND GEOGRAPHICAL DIVISIONS.	Tofal Mortality from all Causes.	Deaths from Diphtheria.	Per Cent of Deaths from Diphtheria to Deaths from all Causes.
State	16,425	1,416	8,62
Upper Peninsular	1,128	68	6.03
Northwestern	483	44	9.11
Northern	423	52	12.29
Northeastern	230	24	10.44
Western	2,007	193	9.62
Northern-Central	471	121	25.69
Bay and Eastern	2,596	215	8.28
Central	2,236	229	10.24
Southwestern	1,082	49	4.44
Southern-Central	2,405	96	3.99
Southeastern	3,364	326	9.69

The per cent of deaths from diphtheria to deaths from all causes is quite variable, ranging from 3.99 per cent in the southern-central to 25.69 per cent in the northern-central division. One fact is evident from the foregoing table, that diphtheria is very unequally distributed throughout Michigan. It seems to prevail the most among the northern counties and newly settled portions of the State.

From Exhibit M. it will be seen that the proposition that the air was colder than the average in months in which more than the average number of deaths occurred, and warmer than the average in months in which less than the average number of deaths occurred, holds true in ten out of the twelve months.

In the following table are exhibited the deaths from diphtheria, arranged by counties, with the per cent of deaths from this disease to deaths from all causes during the year 1882; also the number of deaths from diphtheria, by counties, for each of the years 1877-1882. In the counties, it prevailed in very different degrees, from .99 per cent of all causes in Keweenaw, where it prevailed the least, to 36.96 per cent in Kalkaska, where it was the most prevalent. The most noticeable decline in the number of deaths from diphtheria was in the counties of Kent, Mecosta, Montcalm, and Saginaw, while the county of Wayne showed a large increase over the previous year.

EXHIBIT M .- DIPHTHERIA .- Deaths Returned as having occurred in Michigan from Diphtheria, by month, during the year 1882, and some coincident Meteorological conditions.

	Months	Deaths Diphti 188	eria,	Temper Degree	ature,— s Fahr.	Ā	tmosph	idity iere, E y Aver	tc.,	Ozone Relat Maxin	lve	Wind, Miles per	enheit.)
N De Di	ORDER BY UMBER OF ATHS FROM PHTHERIA, BREATEST FIRST.	Number.	Per Cent. of Total.	Average Dally Range during Day and following Night by Registering Thermometers Observed at 7 A. M.	Average of Dally Observa- tions at 7 A. M., 2 P. M., and 9 P. M.	Relative Humidity, or Per Cent. of Saturation.	Weight in Grains, of Vapor, in a Cubic Foot of Air.a	Weight, in Troy Ounces, of Vapor, Inhaled by one per- son in 24 hours, a	Weight, in Troy Ounces, of Vapor Exhaled from Air passages in 24 hours, in excess of vapor inhaled.	Day,-7 A. M. to 2 P. M.	Night,-9 P. M. to 7 A. M.	Average Velocity of Wind, Miles per hour, by Registering Anemometer.	Average Pressure of Atmosphere. (Ba ometer Reduced to 32° Fabrenhelt.)
Year	, 1882	b 1,411	100.00	17.43	47.14	76	3.48	2.18	9.50	3.41	3.50	9.6	29.138
÷ = 1	November	192	13,61	13.51	37.90	79	2.46	1.54	10,14	2,95	3.14	8.6	29,224
ath	December	150	10.63	12.43	25.72	82	1.59	.99	10.69	3.51	4.08	10.1	29,135
Ç.	October	132	9.36	19.77	c 53.53	76	3.95	4 2.47	9.21	3,13	2.72	8.6	29.134
than the Av. No. of Deaths.	February	124	8.79	16.52	33.42	77	2.03	1.27	10.41	3.75	4.20	11.7	29.121
Be t	January	121	8.58	15.70	24.32	81	1.53	.96	10.72	3.68	4.16	11.5	29,186
More	March	118	8.36	15.89	34.12	77	2.06	1.29	10.39	3.74	4.61	11.8	29,149
Avei	rage	117	8.33	17.43	47.14	76	3.48	2.18	9.50	3,41	3.50	9.6	29,138
<u>.</u>	April	115	8.15	19.08	42.65	68	2.59	4 1.62	10,06	3.85	3.99	11.1	29.153
Ave	Мау	96	6.80	19.55	51.04	67	3.30	d 2.06	9.62	3.79	3.99	10.1	29.123
Less than the Average No. of Deaths.	Jane	94	6.66	20.83	64.43	71	5,20	3.25	8.43	3.47	3.34	8.7	29.00
0.0	September	94	6.66	19.31	61.70	77	5.03	3.14	8.54	2.88	2.40	7.5	29,200
ZZ	August	90	6.38	16.80	69.05	81	6.47	4.04	7.64	3.19	2.64	6.9	29.112
Less	July	85	6.02	20.25	67.84	70	5.52	3.45	8.93	2.94	2.67	8.5	29,118

See foot-notes to Exhibit K, page 278.
 Excluding 5 in unknown month.
 Exceptions to the proposition that more than an average number of deaths from Diphtheris occurred in months when the Average Daily temperature was less than the average, and vice versa d Exceptions to the proposition that more than an average number of deaths from Diphtheria occurred in months when less than the average quantity of vapor was inhaled, and vice versa.

EXHIBIT 13.—Deaths from Diphtheria. by Counties, for each of the Years 1877-1882.

		1882.						
STATE AND COUNTIES.	Deaths from all Causes.	Deaths from Diphthe- ria.	Per Ut. of Deaths from Diphtheria to Deaths from all Causes.	1881.	1880.	1879.	1878.	1877.
State	16,425	1,416	8.62	2,063	1,542	1,473	887	56
Alcona	9	. 1	11.11	3	3	3	3	
Allegan	382	27	7.07	36	11	20	29	
Alpena	87	6	6.90	3			••••	
Antrim	78	7	8.97	9	3	11	10	:
Baraga	41	7	17.07	•••••			•••••	
Barry	181	28	15.47	62	12	8	17	] :
Bay	503	24	4.77	112	40	41	16	;
Benzie	54	1	1.85	1	2	4		
Berrien	333	8	2.40	7	31	<b>%</b> 0	27	
Branch	207	3	1.45	4	10	33	16	,
Calhoun	264	12	4.55	13	8	40	10	
Cass	163	5	3.07		9	47	47	
Charlevoix	94	13	13,83	1		1		
Cheboygan	78	9	11 54	10	3	1	20	
Chippewa	80	11	13.75		2		••••	
Clare	41	13	31,71.	13	42	2		
Clinton	191	41	21.47	49	19	15	52	
Crawford	15			5		1		
Delta	51	7	13,73	10	6			
Eaton	202	4	1.98	36	18	30	47	:
Emmet	95	6	6.32	10	1	3		
Genesee	341	31	9.09	56	38	17	17	,
Gladwin	6			•••••		7		••••••
Grand Traverse	44	4	9.09	18	6	2	6	,
Gratiot	166	18	10.84	23	31	31	18	,
Hillsdale	236	7	2.97	20	14	32	19	:
Houghton	250	17	6.80	3			1	
Huron	150	7	4.67	15	7	8	10	
Ingham	249	29	11.65	29	14	56	9	
Ionia	290	54	18.62	42	11	16	14	
Iosco	55	9	16.36	57	1	4	2	
Isabella	135	32	23.70	41	56	23	1	

EXHIBIT 13.—Continued.—Deaths from Diphtheria, by Counties.

		1882.						
COUNTIES.	Deaths from all Causes.	Deaths from Diphthe- ria.	Per Ct. of Deaths from Diphtheria to Deaths from all Causes.	1881.	1880.	1879.	1878.	1877.
Jackson	356	22	6.18	26	5	26	84	5
Kalamazoo	338	23	6.80	77	13	22	17	9
Kalkaska	46	17	36.96	7	1	1		
Kent	809	88	10.88	180	194	171	64	7
Keweenaw	101	1	.99	4			<b></b> .	<u> </u>
Lake	37	4	10.81	14	3	2		
Lapeer	245	19	7 76	19	6	42	7	1
Leelanaw	39	1	2.56	10	13		<b> </b>	
Lenawee	401	11	2.74	12	17	10	12	2
Livingston	178	4	2.25	17	19	22	5	.
Mackinac	• 18			•	•	<b></b>	1	
Macomb	267	. 26	9.74	25	8	19	17	;
Manistee	219	16	7.31	4	2	4	1	 
Manitou	11	2	18.18				 	
Marquette	419	19	4.53	19	7	5	10	
Mason	80	17	21.25	83	31	14		
Mecosta	193	69	35.75	134	60	18	2	
Menominee	93	1	1.08	1	1	•••••		
Midland	87	6	6.90	10	28	5	8	
Missaukee	32	4	12.50	1			1	
Monroe	302	23	7.61	12	20	14	17	
Montcalm	278	14	5.04	69	80	11	6	;
Montmorency	2							
Muskegon	339	21	6.19	47	43	37		
Newaygo	131	13	9.92	41	60	8	5	,
Oakland	341	19	5.57	13	7	21	20	]:
Occana	137	11	8.03	27	13	13	1	
Ogemaw	32	8	25.00			 		
Ontonagon	36			1				
Osceola	107	23	21.50	9	60	23		
Oscoda	7			2				
Otsego	• 17			2	1	2	2	
Ottawa	367	16	4.33	33	15	44	3	
Presque Isle	38			3				
Roscommon	9	1	11,11	1	2	2	1	

EXHIBIT	13.—CONTINUED	-Deaths	from	Diphtheria.	bu	Counties.

		1882.						
COUNTIES.	Deaths from all Causes.	Deaths from Diphthe- ria.	Per Ct. of Deaths from Diphtheria to Deaths from all Causes.	1881.	1880.	1879.	1878.	1877.
Saginaw	848	65	7.67	103	148	157	52	19
Sanilac	193	10	5.18	23	3	10	12	17
Schoolcraft	39	5	12.82		<b></b>	<b></b>		
Shiawassee	160	6	3.75	12	13	8	11	1
St. Clair	405	57	14.07	39	43	7	22	13
St. Joseph	252	7	2.78	12	13	28	13	5
Tuscola	252	33	13.10	85	41	46	5	5
Van Buren	204	8	3.92	29	4	11	7	4
Washtenaw	351	11	3.13	16	9	10	4	1
Wayne	2,454	258	10.51	136	137	128	67	55
Wexford	84	16	19.05	9	24	б	20	
No. of Counties		70		68	62	61	52	46

EXHIBIT V.—CEREBRO-SPINAL MENINGITIS, ETC.—The Total Number of Deaths from Cerebro-Spinal Meningitis, Spotted Fever, Spinal Meningitis, Meningitis, and Spinal Fever, Returned as having occurred in Michigan during the Year 1882, by Months, and by Sex.

CAUSES OF S	н, '82.					M o	NTHE	, 188	2.				
DEATH, SEX.	YEAR,	Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.
Total { Total { Males.   Fema's	223 115 108	11 4 7	23 13 10	30 13 17	15 9 6	27 19 8	19 8 11	10 4 6	20 10 10	19 12 7	17 6 11	20 10 10	1 <u>9</u> 7 5
Spinal Total Meningitis Males Fema's	24 14 10	3	2 2	4 3 1	1 1	2 1 1	·2	1 1		<u>1</u>	2 2	2 2	9
Spotted Total Fever Males . Fema's	2 2		1 1								<u>1</u>		
Spinal Total Meningitis Males Fema's	84 42 42		7 4 3	15 7 8	4 2 2	11 9 2	6 2 4	3 3	9 6 3	6 3 3	6 1 5	8 4 4	
Meningitis { Total Males. Fema's	16 7 9	1	2 1 1	<u>1</u>	1	2 2	1 1		<u>1</u>	4 2 2	1	2 1 1	
Spinal Total Fever Maies. Fema's	97 52 45	3	9 6 3	10 3 7	- 9 5 4	12 9 3	10 6 4	6 3 3	10 4 6	8 7 1	7 2 5	8 3 5	2 1 1

Cerebro-Spinal Meningitis.—In Exhibit V. are presented some of the important diseases of the brain and nervous system. The returns for 1882 show that 223 deaths occurred from these causes, of which 24 deaths were from cerebro-

spinal meningitis; 2 from spotted fever; 84 from spinal meningitis; 16 from meningitis; and 97 from spinal fever. The greatest mortality was in the month of March, and the least in July. The fatality fell most heavily upon the young, there being 121 deaths of children under five years of age, or 54.26 per cent of the whole number.

The relations of these diseases to atmospheric conditions may be studied in

Exhibit 15.

EXHIBIT 15.—CEBEBRO-SPINAL MENINGITIS, ETC.—Deaths Returned as having occurred in Michigan from Cerebro-Spinal Meningitis. Spotted Fever, Spinal Meningitis, Meningilis, and Spinal Fever, by Months, during the Year 1882, and some coincident Meteorological conditions.

	N CKRE- 118, MEN- FEVER,	Spinal	bro- Men-	Т	emper Degr Fab				Ozor Rela Maxis	tive.	, Miles per emometer.	Inches.	pher	e. — Inc Mercui	Atmos- hes of y. 52° F.)
E H	ATHS FROM (MENINGITIS, D SPINAL FIRST.			during	Night, neters	Obser-	tion.	Foot	į,	A. M.	Wind ing An	ow, in	Rang Baron		
2	BER OF URATHS FROM BRO-SPINAL MENINGITIS INGITIS, AND SPINAL I GREATEST FIRST.	Number.	Per Cent of Total.	Range,	bay and folling Night, by Reg. Thermometers Observed at 7 A. M.	Average of Dally O vations at 7 A. M.,	Relative Humidity, or Per Cent of Saturation.	Weight, in Grains of Vapor in a Cubic Foot of Air.a	Day-7 A. M. to 2 P.	Night-9 P. M. to 7	Average Velocity of Wind, Miles per Hour, - by Registering Anemometer.	Rain and Melted Snow, in Inches.	Monthly, and Year.	Average Dally.	Avorage Pressure.
Yea	r, 1882	223	100.00		17.43	47.14	76	3.48	3.41	3.50	9.6	37.25	1.461	.211	29.13
•	March	30	13.45		15.89	¢34.12	4 77	• 2.06	f 3.74	r4.61	11.8	3.66	1.299	.362	E 29.145
More than the Average No. of Deaths.	May	27	12.11		19.55	51.04	67	• 3.30	f 3.79	f 3.99	10.1	4.45	.810	. 158	29. 121
at b	Feb	23	10.31	ь	16.52	c 33,42	d 77	• 2.03	f 3.75	f 4.20	11.7	2.72	1.346	.330	20.12
ğğ.	Aug	20	8.97	١	16.80	69.05	4 81	6.47	3.19	2.64	6.9	5.61	.525	.095	29.11
0 0	Nov	20	8.97		13.51	c 37.90	4 79	€ 2.46	2,95	3.14	8.6	2.24	.915	.189	z 29 22
2	June	19	8.52		20.33	64.43	71	5.20	13.47	3.34	8.7	5.40	.794	.163	29.00
Ä	Sept	19	8.52		19.31	61.70	4 77	5.03	2.88	2.40	7.5	1.63	.757	.148	g 29.90%
Ave	rage	18	8 33		17.43	47.14	76	3.48	3.41	3 50	9.6	3. 10	.915	.211	29.13
ر ز	Oct	17	7.62	ь	19.77	r 53.53	76	• 3.95	f 3. <u>1</u> 3	1 2.72	8.6	2.92	.767	.200	e 29.134
E P	April	15	6.73	ь	19.08	42.65	4 68	2.59	3.85	3.99	11.1	2.17	1.053	.192	29.151
No. of Deaths.	Dec	12	5.38		12.43	25.72	82	1.59	3.51	4.08	10.1	2.01	.997	.225	s 29.18
Less than the Av. No. of Deaths.	Jan	11	4.93		15.70	24.32	81	1.53	3.68	4.16	11.5	1.97	1.151	.338	29.18
3Z	July	10	4,49	١.	20,25	€ 67.84	4 70	• 5.52	f 2.94	1 2.67	8.5	2.47	.573	. 123	<b>s 29.11</b> 6

<sup>See foot-notes to Exhibit K, page 278.
Exceptions to the proposition that the Average Daily Range of Temperature was greater than the average in months when more than the average number of deaths occurred, and vice versa.
Exceptions to the proposition that the Average Daily Temperature was higher than the average in months when more than the average number of deaths occurred, and vice versa.
Exceptions to the proposition that the Relative Humidity was less than the average in months when more than the average number of deaths occurred, and vice versa.
Exceptions to the proposition that the Absolute Humidity was greater than the average in months when more than the average number of deaths occurred, and vice versa.
Exceptions to the proposition that the Ozone was less than the average in months when more than the average number of deaths occurred, and vice versa.
Exceptions to the proposition that the Atmospheric Pressure indicated by the barometer, was less than the average in months when more than the average in months when more than the average in months when more than the average in months when more than the average number of deaths occurred, and vice versa.</sup> 

EXHIBIT U .- Congestive Chills .- Deaths Returned as having occurred in Michigan from Congestive Chills by Months, during the Year 1882, and some coincident Meteorological conditions.

	THE	Cong	eaths om cestive dils, 882.		pera- De- Fahr.	Hum	Etc.,-	Month erage.	sphere, ly		Max-	Miles per hour, by		phere.	Inches cury.	Atmos- of Mer 32° F.)
r No	MBER			Day and gistering at 7 A.M.	tions at	Per Cent.	Vapor in a	of Vapor n in 24	unces, of Vapor r passages in 24 vapor inhaled. a				Inches.	Rang	ge of neter.	
CHI GRE	CON- FIVE LLS, ATESF	Number.	Per Cent. of Total.	Av. Daily Range during Day and following Night, by Registering Thermometers, observed at 7 A.M.	Average of Dally Observations 7 A. M., 2 P. M., and 9 P. M.	Relative Humidity, or P. of Saturation.	Weight, in Grains, of Val	Weight, in Troy Ounces, of Inhaled by one person hours, a	Weight, in Troy Onnees, o exhaled from air passag hours in excess of vapor !	Day,-7 A. м. to 2 г. м.	Night,-9 P. M. to 7 A. M.	Average Velocity of Wind, Registering Anemometer.	Rain and Melted Snow, in Inches.	Monthly and Year.	Average Dally.	Average Pressure.
ear	, 1882.	48	100.00	17.43	47.14	76	3.48	2.18	9.50	3.41	3.50	9.6	37.25	1.461	.211	29.13
18.	Apr.	11	22,92	19.08	c 42.65	68	4 2.59	1.62	10.06	• 3.85	* 3.99	111	2.17	1.053	g.192	29.15
erage No.of Deaths.	Jan	7	14.58	5 15.70	c 24.32	81	4 1.53	.96	10.72	• 3.68	* 4.16	11.5	1.97	1.151	.338	29.18
3	Aug.	4	8,33	ь 16.80	69.05	81	6.47	4.04	7.64	3.19	2.64	6.9	5.61	1.525	g .095	h 29.11
No.	Sep	4	8.33	19.31	61.70	77	5.03	3.14	8.54	2.88	240	7.0	1.63	1.737	g.148	29.20
age	Oct	4	8.33	19.77	53.53	76	3.95	2.47	9.21	3.13	2.72	8.6	2.92	f .767	g ,200	h 29.13
9	Nov.	4	8.33	b13.51	€37.90	79	4 2.46	1.54	10.14	2.95	3.14	8.6	2,24	.915	g.189	29,25
Ve1	rage	4	8.33	17.43	47.14	76	3.48	2.18	9 50	3.41	3.50	9.6	3.10	.915	.211	29.13
10	Feb.	3	6.25	16.52	33.42	77	2.03	1.27	10,41	3.75	4.20	11.7	2.72	f 1.346	в ,330	29,19
Deatha.	July.	3	6.25	▶20.25	e 67.84	70	4 5,52	3.45	8.23	× 2.94	+ 2.67	8.5	2.47	.573	-123	29.13
	Mar.	2	4.17	15,89	34.12	77	2.06	1.29	10,39	3.74	4.61	11.8	3.66	r 1.292	g .362	ь 29.1
No. of	May.	2	4.17	6 19.55	c51.04	67	3.30	2.06	9.62	3.79	3.99	10.1	4.45	.810	.158	29.15
	June.	2	4.17	<b>120.33</b>	e 64.43	71	d 5.20	3.25	8.43	3.47	* 3.34	8.7	5.40	.794	-163	29.00
ago	Dec.	2	4.17	12.43	25.72	82	1.59	.99	10.69	3.51	4 08	10.1	2.01	f .997	g.225	29.13

See footnotes to Exhibit K, page 278.

Exceptions to the proposition that the Average Daily Range of Temperature was greater than the verage in months when more than the average number of deaths occurred, and vice versa.

Exceptions to the proposition that the Average Daily Temperature was higher than the average in months when more than the average number of deaths occurred, and vice versa.

Exceptions to the Proposition that the Absolute Humidity was greater than the average in months when more than the average number of deaths occurred, and vice versa.

Exceptions to the proposition that the Ozone was less than the average in months when more than be average number of deaths occurred, and vice versa.

Exceptions to the proposition that the Monthly Range of Barometer was greater than the average months when more than the average number of deaths occurred, and vice versa.

Exceptions to the proposition that the Average Daily Range of Barometer was greater than the verage in months when more than the average number of deaths occurred, and vice versa.

Exceptions to the proposition that the Average number of deaths occurred, and vice versa.

Exceptions to the proposition that the Average number of deaths occurred, and vice versa.

Congestive Chills.—There were 48 deaths returned from congestive chills in 1882, which is a smaller number than was returned in any previous year. The average annual number of deaths from this cause, for the fourteen years 1869-1882, was 78. The greatest mortality in 1882 occurred in April, and the least in December. It is a disease occurring at all ages of life, but is especially fatal among those under five.

The relation between deaths from congestive chills and certain meteoro-

logical conditions may be seen in Exhibit U.

Intermittent Fever.—The malarial fevers, which under various names have been so widely extended in our Western States, seem to be growing less fatal in Michigan. This is without doubt largely the result of the great advance in sanitary knowledge in the past few years. The number of fatal cases returned from this cause was 34, being 11 less than for 1881. The average annual number for the fourteen years 1869–1882 was 49. The deaths in the spring months were in the majority, and also those aged under five.

As may be seen in Exhibit W, page 289, there are only three exceptions to the proposition that the Average Daily Temperature was higher than the average in months when more than the average number of deaths occurred, and

vice versa.

Typhoid Fever.—Two hundred and sixty-nine males and 193 females died from this disease in 1882, the whole number being little more than half as many as in 1881, and less than in any year since 1879. The average annual number of deaths for the fourteen years 1869–1882, was 512, which was 49 more than was returned in 1882. The per cent of mortality from typhoid fever to deaths from all causes, in 1882, was 2.82; this is considerably less than the average percentage for the years 1869–1882, which was 3.89. The present year was, therefore, exceptionally favorable as to mortality from typhoid fever. Nearly 42 per cent of the deaths were of persons between 15 and 30 years of age, and 35 per cent of the deaths were between 15 to 25. During the months of September, October, and November, 42.52 per cent of the deaths from this disease occurred, and nearly 20 per cent of the entire mortality was in the month of October alone. This disease has been well named "autumnal fever."

By an examination of Table XXI., it will be seen that typhoid fever was most fatal in the sparsely settled divisions of the State. The Upper Peninsular, Northern, and Northern-Central Divisions had the largest death-rates from this disease. The comparative newness of these sections renders it probable that the sanitary conditions are not as perfect there as in the more populous southern divisions.

Exhibit X, page 290, shows the relation of typhoid fever to certain atmospheric conditions.

EXHIBIT W.—INTERMITTENT FEVER.—Deaths returned as having occurred in Michigan from Intermittent Fever, by Months, during the Year 1882, and some coincident Meteorological conditions.

	NTHS	from mi	aths Inter- itent ever, 882.	Tempe Deg Fa	rature rees hr.	H	ere, et	of Au	mos- athly	Ozor Rela Maxi =	tive.	Miles per Hour, by		phen	re, Incl	Atmos- nes of y. 32° F.)
BY	NUM-			g Day	ns at	ent of	e uı -	Vapor in 24	Vapor in 24 aled.a			tites pe	ches.	Rang		
DE FI INTI FE GRE	ATHS ROM ERMIT- ENT VER. ATEST RST.	Number.	Per Cent of Total.	Average Daily Range during Day and following Night, by Register- ing Therm'rs, Obs. at 7 A. M.	Average of Daily Observations 7 A. M., 2 P. M., and 9 P. M.	Relative Humidity, or Per Cent Saturation.	Weight, in Grains, of Vapor Cubic Foot of Air, a	Weight, in Troy Ounces, of Inhaled by One person in hours.	Weight, in Troy Ounces, of Vapor Exhaled from Air Passages in 24 hours in excess of vapor inhaled.a	Day-7 A. M. to 2 P. M.	Night-9 P. M. to 7 A. M.	Average Velocity of Wind, M Registering Anemometer.	Rain and Melted Snow, in Inches.	Monthly, and Year.	Average Daily.	Average Pressure,
Year	r, 1882.	34	100.00	17.43	47.14	76	3.48	2.18	9.50	3.41	3.50	9.6	37.25	1.461	.211	29.13
1	June.	5	14.71	20.33	64.43	71	5.20	3.25	8.43	* 3.47	3.34	8.7	5.40	-794	.163	f 29.00
No. of Deaths.	April.	4	11.77	19.08	c 42.65	68	4 2.59	1.62	10.06	e 3.85	e 3.90	11.1	2.17	1.053	. 192	29,15
in the	May	4	11.77	19.55	51.04	67	4 3.30	2.06	9.62	e 3.79	e 3.99	10.1	4.45	.810	.158	f 29.12
10.0	July	4	11.77	20.25	67.84	70	5.52	3.45	8.23	2.94	2.67	8.5	9.47	.573	.123	f 29,11
To la	Oct	4	11.76	19.77	53.53	76	3.95	2.47	9.21	3.13	2.72	8.6	2.92	.767	.200	1 29.13
Aver	age	3.1	8,33	17.43	47.14	76	3.48	2.18	9.50	3.41	3.50	9.6	3 10	.915	.211	29.13
0	Jan	3	8.82	15.70	24.32	81	1.53	.96	10.72	3.68	4.16	11.5	1.97	1.151	.338	£29.18
Sura B.	Mar	3	8.82	15.89	34.12	77	2.06	1.29	10.39	3.74	4.61	11.8	3.66	1.292	.362	f 29.14
ath	Aug	3	8.82	16.80	c 69.05	81	4 6.47	4.04	7.64	* 3.19	e 2,64	6.9	5.61	.525	.095	29.11
No. of Deaths.	Dec	2	5.88	12.43	25.72	82	1.59	.99	10.69	3.51	4.08	10.1	2.01	.997	.225	29.13
No. c	Sept.	1	2.94	b 19.31	c 61.70	77	4 5.03	3.14	8.54	• 2.88	e 2.40	7.5	1.63	.757	.148	1 20, 20
T T	Nov.	1	2.94	13.51	37.90	79	2.46	1.54	10.14	• 2.95	* 3.14	8.6	2.24	.915	.189	f 20,22
1	Feb	0		16.52	33.42	77	2.03	1.27	10.41	3.75	4.20	11.7	2.72	1.346	.330	29, 19

\*See footnotes to Exhibit K, page 278.

b Exceptions to the proposition that the Average Daily Range of Temperature was greater than the average in months when more than the average number of deaths occurred, and vice versa.

c Exceptions to the proposition that the Average Daily Temperature was higher than the average in months when more than the average number of deaths occurred, and vice versa.

d Exceptions to the proposition that the Absolute Humidity was greater than the average in months when more than the average number of deaths occurred, and vice versa.

Exceptions to the proposition that the Ozone was less than the average in months when more than the average number of deaths occurred, and vice versa.

Exceptions to the proposition that the Atmospheric Pressure indicated by the Barometer was greater than the average in months when more than the average number of deaths occurred, and vice versa.

EXHIBIT X.—TYPHOID FEVER.—Deaths Returned as having occurred in Michigan from Typhoid Fever, by months, during the Year 1882, and some coincident Meteorological conditions.

107	THS IN	Ty:	on phoid ever, 382.	Temp ture,- grees		phe	nidity ere, Et verage	c.,-Mo	tmos- nthly	Ozon Rela Maxii =1	tive mum	er hour		pher	ure of e. Inc Mercui iced to	hes of
BY N	UMBER DEATHS			letering at 7 A. M.	tions at	r Cent.	or, in a	r Vapor fn 24	f Vapor es in 24 nhaled.a			nd, Miles per Anemometer.	Inches.	Rang	re of neter.	
TY FE GRE	ROM PHOID VER, ATEST	Number.	Per Cent. of Total.	Av. Daily Bange during Day and following Night by Registering Thermometers. Observed at 7 A. M.	Average of Dally Observations 7 A. M., 2 P. M., and 9 P. M.	Relative Humidity, or Per of Saturation.	Weight, in Grains, of Vapor, Cubic foot of Afr. a	Weight, in Troy Ounces, of Inhaled by one person hours, a	Weight, in Troy Ounces, of Vapor Exhaled from Air passages in 24 hours in excess of vapor inhaled.s	Day,-7 A. M. to 2 P. M.	Night, -9 P. M. to 7 A. M.	Average Velocity of Wind, by Registering Ane	Rain and Melted Snow, in Inches.	Monthly and Year.	Average Dally.	Average Pressure.
Year	r, 1882.	461	100.00	17.48	47.14	76	3.48	2.18	9.50	3.41	3.50	9.6	37.25	1.461	.211	29.135
No. of Deaths.	Oct.	91	19.74	19.77	53,53	76	3,95	2.47	9.21	3.13	2.72	8.6	2.92	f .767	g .200	h 29.13
Deal	Nov.	53	11.50	b13.51	e 37.90	79	4 2.46	1.54	10.14	2.95	3.14	8.6	2.24	.915	g .189	29.22
of	Sep.	52	11.28	19.31	61.70	77	5.03	3.14	8.54	2.88	2.40	7.5	1.63	1 .757	g .148	29.20
No.	Dec.	40	8.68	b 12.43	c 25.72	82	d 1.59	.99	10.69	* 3.51	• 4.08	10.1	2.01	.997	.225	h 29.13
Ave	rage	38	8.33	17.43	47.14	76	3.48	2.18	9.50	3.41	3.50	9.6	3.10	.915	.211	29.12
98	May .	35	7,59	b 19.55	c 51.04	67	3.30	2.06	9.62	3.79	3.99	10.1	4.45	.810	.158	29 15
	Feb.	34	7.37	16.52	33,49	77	2.03	1.27	10.41	3.75	4.20	11.7	2.72	11.346	E.3.0	29.15
eati	Jan	31	6.72	15.70	24.32	81	1.53	.96	10.72	3,68	4.16	11.5	1.97	f 1.151	g .338	h 29.18
r D	Mar.	30	6,51	15.89	34.12	77	2.06	1.29	10.39	3.74	4.61	11.8	3.66	f 1,292	g .362	6 29,1
er o	June	30	6,51	b20.33	e 64.43	71	4 5.20	3.25	8.43	3.47	e 3.34	8,7	5.40	.794	.163	29.00
Number of Deaths.	Aug.	27	5.86	16.80	€ 69.05	81	4 6.47	4.04	7.64	• 3.19	• 2.64	6.9	5.61	.525	.095	29.11
Z	July	20	4,34	₽ 20.25	€ 67.84	70	4 5,52	3,45	8.23	e 2.94	• 2.67	8.5	2.47	,573	.123	29,11
3	April	18	3.90	b 19.08	42.65	68	2,59	1.62	10.06	3,85	3.99	11.1	2.17	f 1.053	.192	h 29.15

a Sec foot-note to Exhibit K, page 278.

b Exceptions to the proposition that the Dally Range of Temperature was greater than the average in months when more than the average number of deaths occurred, and vice versa.

c Exceptions to the proposition that the Average Dally Temperature was greater than the average in months when more than the average number of deaths occurred, and vice versa.

d Exceptions to the proposition that the Absolute Humidity was greater than the average in months when more than the average number of deaths occurred, and vice versa.

d Exceptions to the proposition that the Ozone was less than the average in months when more than the average number of deaths occurred, and vice versa.

f Exceptions to the proposition that the Monthly Range of Barometer was greater than the average in months when more than the average number of deaths occurred, and vice versa.

Exceptions to the proposition that the Average Daily Range of Barometer was greater than the average in months when more than the average number of deaths occurred, and vice versa.

Exceptions to the proposition that the Atmospheric Pressure indicated by the Barometer was greater than the average in months when more than the average number of deaths occurred, and vice versa. persa.

Dysentery.—The mortality from this disease was less in 1882 than for any previous year, the number of deaths returned being only 96, while in 1881 there were 270, a decrease of 174. The average annual mortality for the fourteen years 1869–1882, was 233, which is 137 more than was reported in 1882. Over two-thirds, or 68.75 per cent of the deaths from dysentery occurred in July, August, and September; and 76.04 per cent of the decedents were under five years of age.

Table XXI. shows the geographical distribution of dysentery, where it appears that the disease prevailed the most in the Upper Peninsular and North-

eastern divisions.

TABLE XXI.—DIARRHEA AND DYSENTERY.—Exhibiting, for the State and for Eleven Geographical Divisions of the State, the Number of Deaths Returned as having occurred from Diarrhea and Dysentery, and from Typhoid Fever, and the Per Cent of Deaths from each Disease to Deaths from All Causes, during the Year 1882.

		RA, 1882. DUHRONIC,		ERY, 1882. D'URONIC.		FEVER.
STATE AND GEOGRAPHICAL DIVISIONS.*	Number of Deaths, 1882.	Per Cent to Deaths from All Causes, by Geograph- ical Divis- ions,	Number of Deaths, 1882.	Per Cent to Deaths from All Causes, by Geogr. ph- ical Divis- ions.	Number of Deaths, 1882,	Per Cent to Deaths from All Causes, by Geograph ical Divis- ions.
State	259	1.58	96	.58	463	2.82
Upper Peninsular	36	3.19	15	1.33	55	4.88
Northwestern	7	1.45	1	.21	17	3.52
Northern	- 1	.24	5	1.18	20	4.73
Northeastern	3	1.30	3	1.30	1	.43
Western	60	2.99	20	.95	57	2.81
Northern-central	3	.64	1	.21	21	4.46
Bay and Eastern	51	1.96	19	.73	67	2.58
Central	9	.40	11	.49	72	3,29
Southwestern	5	-46	5	.46	33	3.00
Southern-central	11	.46	8	.33	56	2.38
Southeastern	73	2.11	8	.24	64	1.90

<sup>.</sup> For counties included in each division, see page 184.

EXHIBIT 16. - DIARRHEA. - Deaths Returned as having occurred in Michigan from Diarrhea, by Months, during the Year 1882, and some coincident Meteorological conditions, reported to the Office of the State Board of Health, by various Observers in the State.

	ONTHS RDER BY			Temper Degr Fab	ees	Snow.	Atmos		tive.	Scale egrees olor-	Miles per emometer.	pher	nre of e,—Inc Mercui	y.
	UMBER DEATHS			during Night, meters M.	2 P.	Melted	ation.	Gubie	-1 A.	-9 r.	f Wind	Rang	neter.	
DIA	FROM ARRHEA, EATEST 'IRST.	Number.	Per Cent of Total.	Av. Daily Range, during Day and folling Night, by Reg. Thermometers Observed at 7 A. M.	Average of Dally Observations at 7 A. M., 2. P. M., and 9 P. M.	Inches of Rain and Melted Snow.	Relative Humidity, or Per Cent of Saturation.	of Vapor in a Cubic Foot of Air.a	Day Observation,-	Night Observation,-9 r. M. to 7 A. M.	Average Velocity of Wind, Miles per Hour,-by Registering Anemometer.	Monthly, and Year.	Av. Dally Range of Obs'v'ns at 7 A. M., 2 P. M., and 9 P. M.	Аустадо Ргенице.
Year	r, 1882	259	100.00	17.43	47.14	37.25	76	3.48	3.41	3.50	9.6	1.461	.211	29.138
hs.	Aug	73	28.18	b 16.80	69.05	5.61	d 81	6.47	3.19	2.64	6.9	g .525	h .005	1 29,119
No. of Deaths.	Sept	73	28.18	19.31	61.70	1.63	d 77	5,03	2.88	2.40	7.5	g .757	h .148	29,203
of 1	July	33	12.74	20,25	67.84	2.47	70	5.52	2,94	2.67	8.5	g .573	h , 123	1 29.118
No	Oct	26	10.04	19.77	53.53	2.92	76	3.95	3.13	2.72	8,6	я .767	h .200	1 29,134
Ave	rage	24	8.33	17.43	47.14	3.10	76	3.48	3.41	3.50	9.8	.915	.211	29.138
ii.	June	15	5.79	b 20.33	c 64.43	5.40	d 71	* 5.20	3.47	f 3.34	8.7	.794	.163	29,00
Num	Nov	11	4.25	13.51	37.90	2.24	79	2.46	12,95	f 3.14	8,6	.915	.189	1 20 22
ns.	April	9	3,48	ь 19.08	42,65	2.17	d 68	2.59	3.85	3.99	11.1	g 1.053	.192	1 29.15
her of Deaths.	March.	.6	2.32	15.89	34.12	3.66	77	2.06	3.74	4.61	11.8	g 1.292	h .362	1 29.14
of I	Dec	6	2.32	12.43	25.72	2.01	82	1.59	3.51	4.08	10.1	€ .997	6.225	29.13
her	May	5	1.93	b 19.55	c 51.04	4.45	d 67	3.30	3.79	3.99	10.1	.810	.158	29.12
Less than the	Jan	2	.77	15.70	24.32	1.97	81	1.53	3.68	4.16	11.5	€ 1.151	h .338	1 29,180
re	[ Feb	0		16.52	33,42	2.72	77	2.03	3,75	4.20	11.7	g 1.346	h .330	20.12

See foot-notes to Exhibit K, page 278.
 Exceptions to the proposition that more than the average number of deaths from Diarrhea occurred in months when the Average Daily Range of Temperature was greater than the average,

and vice versa.

Exceptions to the proposition that more than the average number of deaths from Diarrhea occurred in months when the Average Daily Temperature was higher than the average and vice

d Exceptions to the proposition that more than the average number of deaths from Diarrhea occurred in months when the Relative Humidity of the Atmosphere was less than the average, and vice versa.

<sup>&</sup>quot; Exceptions to the proposition that more than the average number of deaths from Diarrhea occurred in months when the Absolute Humidity of the Atmosphere was greater than the average and vice versa.

f Exceptions to the proposition that more than the average number of deaths from Diarrhea occurred in months when the Amount of Ozone in the Atmosphere was less than the average, and

g Exceptions to the proposition that more than the average number of deaths from Diarrhea occurred in months when the Monthly Range of Barometer was greater than the average, and vice

versa.

h Exceptions to the proposition that more than the average number of deaths from Diarrhea occurred in months when the Average Daily Range of Barometer was greater than the average,

and vice versa.

1 Exceptions to the proposition that more than the average number of deaths from Diarrhea occurred in months when the Average Daily Pressure of the Atmosphere was greater than the rage, and vice versa.

Diarrhea.—The returns for 1882 show a decided reduction in the mortality from this disease, there being 259 deaths, against 501 in 1881, and 310 in 1880. The annual average of mortality for the ten years 1873–1882, was 311, or 52 more than was recorded in 1882. Deaths were recorded in every month except February, but the months of July, August, and September contributed 69.10 per cent of the total mortality from this cause, the months of July and August standing at the head with an equal number of deaths. In regard to age, 87.64 per cent of the decedents from diarrhea were under five years of age. The excessive heat in summer has always been an important factor in causing deaths from diarrhea, and the diminished mortality in 1882 may be largely the result of the cool summer of that year.

Exhibit 16 shows the relation which the deaths from diarrhea sustain to certain meteorological conditions. It will be seen that there are only two exceptions to the proposition that *more* than the average number of deaths from diarrhea occurred in months when the Average Daily Temperature was higher

than the average, and vice versa.

Rheumatism.—During the year 1882, according to the returns, 94 deaths occurred from rheumatism in this State. This number is 18 less than n 1881, and 22 more than in 1880. The number includes all reported under the following specific terms: Rheumatism of heart, 21; inflammatory, 16; sciatic, 3; rheumatism, 56. Although the deaths from rheumatism are so few in comparison with deaths from some other diseases, still it is one of the principal causes of sickness in this State, and it is, therefore, desirable to get all the information possible concerning it. Deaths from rheumatism were reported in every month of the year 1882, but the largest mortality occurred in March, the total in that month being 12.77 per cent of the whole number from rheumatism for the year. During the last eight years, 1875–1882, the month of March has stood at the head of the list of months, in which there were deaths from rheumatism, four times, May twice, and June twice. In its relation to age, the mortality from this cause has been greatest among persons over 50 years of age.

Exhibit 18 shows the relation of deaths from rheumatism to certain atmospheric conditions. The proposition that the air contained more than the average amount of vapor of water in months when more than the average number of deaths from rheumatism occurred, and vice versa, had five exceptions in 1875, seven in 1876, six in 1877, six in 1878, six in 1879, two in 1880,

three in 1881, and five in 1882.

EXHIBIT 18.—RHEUMATISM.—Deaths Returned as having occurred in Michigan from Rheumatism, by Months, during the Year 1882, and some coincident Meteorological conditions.

	THE IN	Rhe	aths om uma sm, 182.	Temp	-De-	ph	midity ere, Et verage	c.,-Mo	tmos- nthly	Ozor Rela Maxi	tive	per hour,-		pher		Atmos- hes of ry. 32° F.
ax N	UMBER DEATHS			lstering at 7 A. M.	tions at	r Cent.	or, in a	r Vapor in 24	r Vapor es in 24 nhaled.*			Miles	Inches.	Rang		
RHI TIS GRE	COMA CWMA EM,* ATEST RST.	Number, *	Per Cent. of Total.	Av. Dally Range during Day and following Night by Registering Thermometers. Observed at 7 A. M.	Average of Dally Observations 7 a. M., 2 P. M., and 9 P. M.	Relative Humidity, or Per of Saturation.	Weight, in Grains, of Vapor, Cubic foot of Air. a	Weight, in Troy Ounces, of Inhaled by one person hours, a	Weight, in Troy Ounces, of Vapor Exhaled from Air passages in 24 hours in excess of vapor inhaled.»	Day,-7 A. M. to 2 P. M.	Night,-9 P. M. to 7 A. M.	Average Velocity of Wind, by Registering And	Rain and Melted Snow, in Inches.	Monthly and Year.	Average Daily.	Average Pressure.
Year	, 1882.	94	100.00	17.43	47.14	76	3.48	2.18	9.50	3.41	3.50	9.6	37.25	1.461	.211	29.13
0	Mar	12	12,77	15.89	34.12	77	b 2.06	1.29	10.39	e 3.74	€ 4.61	11.8	3.66	1,292	.362	29,1
of Deaths.	June.	11	11.70	20.33	64.43	71	5.20	3.25	8.43	c 3.47	3.34	8.7	5.40	.794	.163	a 29.0
of Deaths.	Jan	10	10,64	15.70	24.32	81	b 1.53	.96	10.72	c 3.68	e 4.16	11.5	1.97	1.151	.338	29.1
De	July	9	9,57	20.25	67.84	70	5.52	3,45	8,23	2.94	2.67	8.5	2.47	.573	.123	d 29,1
of	Dec	9	9.57	12.43	25.72	82	b 1.59	.99	10.69	c 3.51	e 4.08	10.1	2.01	.997	.225	4 29.1
1	Aug	8	8.51	16.80	69.05	81	6.47	4.04	7.64	3.19	2,64	6,9	5.61	.525	,095	# 29,1
Lvei	rage	7.8	8.33	17.43	47.14	-76	3.48	2,18	9.50	3,41	3.50	9.6	3.10	.915	.211	29,1
18.	Nov.	8	8.51	13.51	37.90	79	2,46	1.54	10.14	c 2.95	c 3.14	8.6	2.24	.915	.189	4 29.25
ge No. of Deaths.	May.	7	7.45	19.55	51.04	67	3,30	2.06	9.62	3.79	3.99	10.1	4.45	.810	,158	29,1
C D	Sep.	7	7.45	19,31	61.70	77	b 5.03	3.14	8.54	e 2.88	0 2 40	7.5	1.63	.757	.148	4 29.2
0.0	April	6	6.38	19.08	42.65	68	2,59	1.62	10.06	3.85	3,99	11.1	2.17	1.053	.192	J 29.1
e N	Feb	4	4.26	16,52	33.42	77	2.03	1.27	10.41	3.75	4.20	11.7	2.72	1,346	.370	29.1
2 50	Oct	3	3.19	19.77	53.53	76	ь 3.95	2.47	9.21	e 3.13	2.72	8.6	2.92	.767	.200	29.1

Scarlet Fever .- This disease prevailed during 1882 more extensively than usual, and furnished 3.60 per cent of all deaths, which was more than for any year since 1873. The average annual per cent of the whole number of deaths for the fourteen years 1869-1882, was 3.82, and the average annual number of deaths from scarlet fever for the same years was 486. The mortality for was 592. Most of the victims from scarlet fever were among young

<sup>\*</sup>Includes Rheumatism of Heart, Inflammatory, Sciatic, and Rheumatism.

a Sec foot-note to Exhibit K, page 278.

b Exceptions to the proposition that the Air contains more than the average amount of vapor of water in months when more than the average number of deaths from Rheumatism occurred, and vice

e Exceptions to the proposition that there was less than the average Ozone in the Air in months when more than the average number of deaths from Rheumatism occurred, and vice versa.
4 Exceptions to the proposition that the Atmospheric Pressure was greater than the average in months when more than the average number of deaths from Rheumatism occurred, and vice versa.

children, as may be seen by reference to Table XVII., where 327, or 55.24 per cent of the deaths from this cause in 1882, are shown to be of persons under five years of age; 172, or 29.05 per cent, were between the ages of five and ten, and 571, or 96.45 per cent were under twenty years of age. As regards season of year, the greatest mortality was in the earlier and later months of the year, the disease subsiding during the summer. The most fatal month was November, and the least was July.

EXHIBIT Y .- SCARLET FEVER .- Deaths Returned as having occurred in Michigan from Scarlet Fever, by Months, during the Year 1882, and some coincident Meteorological conditions.

	Manage	SCA FE	ROM RLET EVER,	DEG	PERA- RE, REES HR.	HUPHE	RE, ET	C, MOZERAGES.	THLY	OZON RELAT MAXI	TIVE, MUM	Miles per Hour,-	(Barom-
22	MONTHS IN ORDER BY NUMBER OF DEATHS FROM CARLET FEVER, GREATEST FIRST.	Number,	Per Cent of Total.	Av. Dally Range during Day and following Night, by Reg. Thermometers. Obs. at 7 A. M.	Av. of Dally Observations at 7 A.	Relative Humidity, or Per Cent of Saturation.	Weight, in Grains, of Vapor in a Cubic Foot of Air.a	Weight, in Troy Ounces, of Va- por Inhaled by one person in 24 nours.a.	Weight, in Troy Ounces, of Vapor Exhaled from Air Passages in 24 hours in excess of vapor inhated a	Day,-7 A. M. to 2 P. M.	Night, -9 P. M. to 7 A. M.	Average Velocity of Wind, Miles per by Registering Anemometer,	Average Pressure of Atmosphere. eter Reduced to 32° Fabr.)
Year	, 1882	*591	100.00	17.43	47.14	76	3.48	2.18	9.50	3.41	3.50	9.6	29.135
	November	67	11.34	13.51	37.90 34.12	79	2.46	1.54	10.14	2,95	3.14 4.61	8.6	29.224
No. of Deaths.	December	59	9.98	12.43	25.72	82	1.59	.99	10.69	3.51	4.08	10.1	29.130
No. of	October	56 54	9.47	16,52 19.77	33.42 553.53	77	2.03 c 3.95	1.27 2.47	9.21	3.75	4.20 2.72	11.7 8.6	29.12
	(May	50	8.46	19,55	47.14	76	3.30	2.06	9.50	3.79	3.99	9.6	29.12:
	June	48	8.12	20.33		71	5,20	3,25	8.43	3.47	3.34	87	29.00
of Deaths.	January	43	7.28 6.94	15.70 19.31	61.70	81	o L53	.96 3.14	10.72	3.68 2.88	4.16 2.40	11.5 7.5	29.186
of Deaths.	August	39	6.60	16.80	69.05	81	6.47 • 2.59	1.62	7.64	3.19	2.64	6.9	29,15
Tess	July	33	5.58	20.25	67.84	70	5.52	3.45	8.23	2.94	2.67	8.5	29.118

<sup>\*</sup>Excluding 1 death in unknown month.

\*See foot-notes to Exhibit K, page 278.

\*Exceptions to the proposition that the Average Daily Temperature was lower than the average in months when more than the average number of deaths from Scarlet Fever occurred, and vice

versa.

Exceptions to the proposition that the Absolute Humidity of the Atmosphere was less than the average in months when more than the average number of deaths from Scarlet Fever occurred, and vice versa.

Exhibit Y shows the relation of deaths from scarlet fever to certain meteorological conditions. The proposition that the Average Daily Temperature was colder than the average in months when more than the average number of deaths from scarlet fever occurred, and vice versa, holds true in eight out of the twelve months.

Consumption.—The number of deaths caused by consumption, in 1882, was 1,804. With the exception of the years 1880 and 1881, this number was larger than for any previous year. The mortality from consumption in 1881 was 1,954, the largest ever returned in the State, and the mortality in 1880 was 1,829. The average annual mortality from this cause for the fourteen years 1869–1882, was 1,567. The per cent of deaths from consumption to deaths from all causes is quite uniform from year to year, ranging from 10.15 per cent in 1873, to 13.48 per cent in 1869. The per cent in 1882 was 10.98, and the average for fourteen years, 1869–1882, was 11.96. These statistics are quite satisfactory, as they indicate that, although the deaths from consumption have advanced during these years, still, the increase has not been in proportion to the advance in population.

Of the 1,804 deaths from consumption, in 1882, 832 were males, and 972 were females. There were, therefore, 86 male decedents to 100 females, or 46.12 males, and 53.88 females in each 100 decedents. During the fourteen years from 1869 to 1882, inclusive, the number of deaths returned from consumption, in Michigan, was 21,932, of which 10,156 were males and 11,776 were females. There were 86 male decedents to each 100 female decedents, the same as in 1882, or 46.31 males, and 53 69 females in each 100

decedents.

The following tables show what influence the different months and seasons have in promoting the fatality of consumption. In 1882 the largest number of deaths from this cause occurred in May, and the largest quarterly period was in the second. Making the comparison by seasons, the deaths were in the following order: Spring, 521; autumn, 462; summer, 434; winter, 379.

The second table shows the total mortality from consumption for a period of fourteen years, 1869-1882. It is here seen that the largest monthly mortality was in December, and the largest quarterly mortality appears for the

last quarter of the year.

In reference to age, the subject may be studied in the following tables. It will be noticed that the greatest mortality is between 20 and 30, and that the increase from five to 30 is quite rapid, then after 30 is a regular decrease of

percentage through all the ages.

Exhibit O shows the relation of deaths from consumption to certain atmospheric conditions. The proposition that the Average Daily Temperature was higher than the average in months when more than the average number of deaths from consumption occurred, and vice versa, holds true in eight out of the twelve months.

## Mortality from Consumption by Months and Quarters, 1882.

	Jan.	Feb.	Mar.	April.	Мау.	June.	July.	Aug.	Sep.	Oct.	Nov.	Dec.	Un- known.
Months	99	137	164	163	194	152	151	181	167	148	147	143	8.
Quarters		400			509			449			438		
Per cent		22.17			28.22			24.89			24,28		.44

## Total Mortality from Consumption by Sex, Months, and Age, 1869-1882.

	Si	EX.		1					M	ONTH	8.					
	Males.	Females.	Total.	January.	February.	March.	April.	May.	June.	July.	August.	September.	October.	November.	December.	Unknown.
Males	10,156			581	680	900	964	948	807	786	858	922	839	834	1,000	37
Females		11,776		679	807	965	1,037	1,069	935	962	1,019	1,124	1,026	983	1,123	47
Totals			21,932	1,260	1,487	1,865	2,001	2,017	1,742	1,748	1,877	2,046	1,865	1,817	2,123	84
Quarters					4,615	2		5,760	)		5,67	1		5,800	5	
Per Cent					21,03	3		26.26	3		25,86	3		26,47		38

						Αe	ES,					
-	Under 5.	5 to 10.	10 to 15.	15 to 20.	20 to 30.	30 to 40.	40 to 50.	50 to 60.	60 to 70.	70 to 80.	80 and over.	Unknown.
Males	759	140	156	579	2,210	1,686	1,333	1,192	1,157	671	110	173
Females	745	147	361	1,364	3,417	2,065	1,259	919	759	465	97	178
Totals	1,504	287	517	1,943	5,627	3,751	2,592	2,101	1,916	1,136	207	351
Per Cent.	6.85	1.31	2.35	8.86	25.65	17.14	11.81	9,58	8.73	5.18	.94	1.60
			<u>'</u>	<u> </u>			<u>'                                    </u>		<u> </u>			

## Mortality from Consumption by Sex and Age, 1882.

AGES.	Total Deaths.	Deaths from Con- sumption.	Per Cent, at Several Ages.	Males.	Females.
Under 10	7,553	120	6.65	55	65
10 to 20	1,322	185	10.25	54	131
20 to 30	1,432	506	28.05	215	291
30 to 40	1,024	306	16.96	136	170
40 to 50	933	198	10.98	104	94
50 to 60	944	171	9.48	84	87
60 to 70	1,173	157	8.70	92	65
70 to 80	1,136	104	5.77	64	40
80 and over	639	20	1.11	8	13
Age not stated	268	37	2.05	20	17
Totals	16,425	1,804	100.00	832	973

EXHIBIT N.—Consumption.—By Sex, the Number of Deaths Returned as having occurred in Michigan from Consumption during the Year 1882, by Months Equalized to Uniform length of 30.44 days each; also the Average Number per Month. (Deaths in unknown month excluded.)

SEX.	Total.		DEAT	THS YE	эм Сох	SUMPT	KI KO	1882, в	Y Mox	THS O	F Equa	L LEN	TH.	
		Jan.	Feb.	Mar.	Apr.	May.	June.	July.	Aug.	Sept.	Oct.	Nov.	Dec.	Av.
Total	<b>a</b> 1,796	97	149	161	165	190	154	148	129	169	145	149	140	150
Males	827	44	73	80	79	94	71	63	65	63	59	65	72	69
Females .	969	53	76	81	86	96	83	85	64	106	86	84	68	81

a Excluding 8 deaths from Consumption in unknown months,-5 males and 3 females.

			•	

EXHIBIT O .- Consumption. — Deaths from Consumption, Returned as having occurred in Michigan, by Months, during the Year 1882, and some coincident Meteorological conditions.

10	MONTHS	CONSU	s from mption,	TEMPER DEG: FA:	REES		PHI	TY OF A	ATMOS- C. RAGES.		one, tive. mum 10.	Miles Per	Atmosphere, 32° Fahr.]
DE CO	UMBER OF CATHS FROM ENSUMPTION, GREATEST FIRST.	Namber.	Per Cent of Total.	Average Daily Range during Day and foling Night, by Reg. Thermometers, Observed at 7 A. M.	Average of Daily Observa- tions at 7 A. M., 2 P. M., and 9 P. M.	Relative Humidity, or Per Cent of Saturation.	Weight in Grains, of Vapor in a Cubic Foot of Air.a	Weight, in Troy Ounces, of Vapor Inhaled by one Person in 24 hours.	Weight, in Troy Onnces, of Vapor Exhaled from Air Passages in 24 hours in excess of vaporinhaled,a	Day-7 A. M to 2 P. M.	Night-9 P. M. to 7 A. M.	Average Velocity of Wind, Miles P. Hour, by Registering Anemometer.	Average Pressure of Atmospher (Barometer Reduced to 32° Fahr.)
rear	r, 1882	ь 1,796	100.00	17.43	47.14	76	3.48	2.18	9.50	3.41	3.50	9.6	29.13
	May	194	10.80	19.55	51.04	67	3.30	4 2.06	9.62	3.79	3.99	10.1	29.12
r Deaths.	Sept	167	9.30	19.31	61.70	77	5,03	3.14	8.54	2.88	2.40	7.5	29.20
D	March	164	9.13	15.89	c 34.12	77	2.06	d 1.29	10.39	3.74	4.61	11.8	29,149
age No. of	April	163	9.08	19.08	c 42.65	68	2.59	4 1.62	10.06	3.85	3.99	11.1	29.15
age No. of	June	152	8.46	20.33	64.43	71	5,20	3.25	8,43	3.47	3.34	8.7	29.00
agu	July	151	8.41	20.25	67.84	70	5.52	3.45	8,23	2.94	2.67	8.5	29.118
ver	nge	150	8.33	17.43	47.14	76	3.48	2.18	9.50	3.41	3.50	9.6	29,138
	Oct	148	8.24	19.77	∘53.53	76	3.95	d 2.47	9.21	3.13	2.72	8.6	29,134
No. of Deaths.	Nov	147	8.19	13,51	87.90	79	2.46	1.54	10.14	2,95	3.14	8.6	29.224
De	Dec	143	7.96	12.43	25.72	82	1.59	.99	10.69	3.51	4.08	10.1	29.135
0,0	Feb	137	7.63	16.52	33.42	77	2.03	1.27	10.41	3.75	4.20	11.7	29.121
	Aug	131	7.20	16.80	€ 69.05	81	6.47	d 4.04	7.64	3.19	2.64	6.9	29.112
nge	Jan	99	5.51	15,70	24.32	81	1.53	.96	10,72	3,68	4.16	11.5	29.180

\* See foot-notes to Exhibit K, page 278.

b Excluding 8 deaths in unknown month.

c Exceptions to the proposition that the Average Daily Temperature was higher than the average in months when more than the average number of deaths from Consumption occurred, and vice versa.

d Exceptions to the proposition that more than an average amount of vapor was inhaled in months in which there was more than the average number of deaths from Consumption, and vice

Pneumonia.—This disease is reported to have caused the death of 735 persons in 1882; in 1881, there were 805 deaths, and in 1880, there were 813 deaths, the largest number ever returned in Michigan. The average annual number of deaths from pneumonia for the fourteen years 1869-1882, was 625. The percentage of deaths from pueumonia to deaths from all causes in 1882, was 4.47; this is less than the average percentage for fourteen years by .23 of one per cent, although not as much as the per cent in the year 1880, which was 5.04.

Of the 735 decedents from pneumonia in 1882, 403 were males, 330 were females, and 2 the sex was not reported. The proportions were 123 males to each 100 females, and in every year there has been an excess of deaths among males from pneumonia.

In 1882, the mortality from this cause in the different quarters of the year was as follows:

		Number. Per cent.
First qu	ıarte <b>r</b>	208, or 28.30
Second	66	234, or 31.84
Third	66	94, or 12.79
Fourth	(6	197, or 26.80
The fatality b	y seasons stands thus:	
Spring.		260, or 35.37
Summe	r	116, or 15.78
Autum	n	136, or 18.50
Winter		221, or 30.07

The last month of the year and the second quarter were the periods of greatest fatality, and the smallest number reported was in the months of July and August, and the third quarter of the year.

Three hundred and sixteen of the 735 deaths from pneumonia, or 42.99 per cent, were of children under five years of age. Two hundred, or 27.21 per cent of the entire mortality from this cause, were of persons over 50 years of age. The returns in Michigan for fourteen years show, as might be anticipated, when we consider the tenderness of youth and the frailty of those advanced in years, that while pneumonia attacks all ages, it is especially fatal at the extremes of life.

EXHIBIT 17.—PNEUMONIA.—By Months, the Number of Deaths Returned as having occurred from Pneumonia, in Michigan, during each of the Years 1873-1882, and the Average for Ten Years ending with 1882.

					DEAT	HA FRO	м Рин	IROMU	a, 1878	-1882.				
YEARS.	Total.	Jan.	Feb.	Mar.	April.	May.	June.	July.	Aug.	Sep.	Oct.	Nov.	Dec.	Unk.
1873	706	84	110	80	58	65	55	20	29	34	37	65	68	
1874	800	49	57	108	141	108	46	29	32	46	39	50	93	,
1875	745	85	116	128	88	73	36	21	17	31	42	41	65	!
1876	627	4.3	71	107	68	50	33	20	37	28	38	40	91	
1877	465	58	56	64	60	39	24	14	23	26	26	35	38	:
1878	462	36	37	59	54	37	30	15	19	22	35	53	65	
1879	701	44	92	114	102	59	36	30	31	42	25	45	80	
1880	812	56	82	111	113	79	37	29	36	51	44	68	105	
1881	805	77	88	126	100	70	37	39	29	47,	55	43	91	:
1882	735	50	65	84	82	94	58	29	29	36	43	57	97	,
Av.for 10 yrs	685	59	77	98	87	67	39	25	28	36	38	50	79	9

Diagram No. 7.

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70	10	1		200	11	-	1				114
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EXHIBIT P.- PNEUMONIA. - Deaths Returned as having occurred from Pneumonia in Michigan, during the year 1882, and some coincident Meteorological conditions.

	MONTHS	Deaths Pneun 188	nonia,	Temper	ature,—	A	tmospl	idity of	tc.,-	Ozon Relai Maxi =1	dve mum	Miles per nometer,	bere. (Bar-
DE Pr	ORDER BY UMBER OF ATHS FROM SEUMONIA, GREATEST FIRST.	Number.	Per Cent. of Total.	Average Daily Range during Day and following Night by Registering Thermometers Observed at 7 A. M.	Average of Daffy Observa- tions at 7 A. M., 2 P. M., and 9 P. M.	Relative Humidity, or Per- Cent. of Saturation.	Weight in Grains, of Vapor, in a Cubic Foot of Air.a	Weight, in Troy Ounces, of Vapor, Inhaled by one per- son in 24 hours. a	Weight, in Troy Ounces, of Vapor Exhaled from Air passages in 24 hours, in excess of vapor inhaled, a	Day,-7 A. M. to 2 P. M.	Night,-9 P. M. to 7 A.M.	Average Velocity of Wind, Miles per hour,-by Registering Anemometer,	Average Pressure of Atmosphere. (Barometer Reduced to 32° Fabrenhelt.)
Year	·, 1882	b 733	100.00	17.43	47.14	76	3.48	2.18	9.50	3.41	3.50	9.6	29.13
	December	97	13.23	12.43	25.72	82	1.59	.99	10.69	3.51	4.08	10.1	29.13
aths	May	94	12.82	19.55	c 51.04	67	3.30	2.06	9.62	3.79	3.99	10.1	29.12
De	March	84	11.46	15.89	34.12	77	2.06	1.29	10.39	3.74	4.61	11.8	29.14
No. of Deaths.	April	82	11.19	19.08	42.65	68	2.59	1.62	10.06	3.85	3.99	11.1	29.15
NOW	February	65	8.87	16.52	33.42	77	2.03	1.27	10.41	3.75	4.20	11.7	29.12
Aver	rage	61	8.33	17.43	47.14	76	3.48	2.18	9.50	3.41	3.50	9.6	29.13
0	January	59	8.05	15.70	c 24.32	81	1.53	d .96	10.72	3.68	4.16	11.5	29.18
10	June	58	7.91	20.33	64.43	71	5,20	3,25	8.43	3.47	3.34	8.7	29.00
athi	November	57	7.77	13.51	o 37.90	79	2.46	0 1.54	10.14	2.95	3.14	8.6	29,22
No. of Deaths.	October	43	5.87	19.77	53.53	76.	3.95	2.47	9.21	3,13	2.72	8.6	29.13
No. of Deaths.	September	36	4.91	19.31	61.70	77	5.03	3.14	8.54	2.88	2.40	7.5	29.20
Z	July	29	3.96	20.25	67.84	70	5.52	3.45	8.23	2.94	2.67	8.5	29.11
7	August	29	3.96	16.80	69.05	81	6 47	4.04	7.64	3.19	2.64	6.9	29.11

d Exceptions to the proposition that less than the average amount of vapor was inhaled in months when more than an average number of deaths from Pneumonia occurred, and vice versa.

## CORRELATION OF CONSUMPTION AND PNEUMONIA.

These two diseases may be studied together by sex, by months, and by periods of age in the two following tables. The facts concerning these two diseases seem to show that deaths from them are most prevalent under opposite circumstances.

See foot-notes to Exhibit K, page 278.
 Excluding 2 in unknown month.
 Exceptions to the proposition that the Average Daily Temperature was lower than the average in months when more than an average number of deaths from Pneumonia occurred, and vice

TABLE XXII.—Correlation of Consumption and Preunonia.—Deaths returned as having occurred from Consumption and Pneumonia, in Michigan during the Year 1882, by Months, exhibiting the Total Number, Number of each Sex, Per Cent of Total, and Excess of each Sex.

			DEATHS	DEATHS FROM CONSUMPTION, 1862.	NSUMPTI	ом, 1882.					<b>БЕА</b> ТН8	FROM P3	DEATHS FROM PNEUMONIA, 1882	۱, 1882.		
		Number.		os asi	Per Cei	nt of each Sex Both Sexes.	Per Cent of each Sex to Total of Both Sexes,	Cotal of		Number.		or dar	Per Cent	t of each Sex to Both Sexes.	Sex to T cxes.	Total of
MONTES, 1882.				of 10 . Mom T 101			Excess.	688.		f		of D to Mot Y 101			Excess.	. 88
	Males.	males.	Total.		Males.	males.	Males.	Fe. males.	Males.	re. males.	Total,	Per Ct in eac Ison	Males.	re. males.	Males.	Fe- males.
Year, 1882.	<b>8</b> 88	978	1,804	100.00	46.12	58.88		7.78	<del>1</del> 03	330	b 735	100,00	24.98	45.03	9.96	
January	3	Z	8	5.48	45.45	54.55	-	9.10	88	22	28	8.03	64.41	35.59	28.82	٦
February	49	8	e 137	7.50	48.91	2700	70	2.18	28	8	8	78.8	34.68	45.31	9.38	T
March	81	88	<b>3</b> 6	9.00	40.30	20.61	7	1.22	<b>3</b>	7	<b>ಪ</b>	11.43	51.19	48.81	2.38	7
April	78	*8	291	906	47.85	52.15	7	4.30	<b>\$</b>	*	88	11.16	28.54	41.46	17.08	₹
May	8	88	194	10.75	87 67	50.53	7	1.04	8	#	3	12 79	53.19	46.81	6.38	7
June	٤	88	. 153	8.48	46.05	53 95	4	7.80	8	22	88	7.89	52.63	47.37	5.26	ij
July	\$	87	• 151	8.37	42.38	57.62	P	15.24	25	71	81	394	.51.72	48.28	3.44	•
Angust	8	\$	181	7.26	50.38	49.63	92.		18	=	81	3.05	62.07	37.93	24.14	
September	26	106	• 167	9.36	87.13	62.87		25.74	18	18	<b>%</b>	4.90	20.00	20.00		•
October	8	<b>28</b>	148	<b>8</b> .20	40.54	29.46	•	18.92	g	12	43	5.83	51.16	48.84	2.33	-
November	25	88	147	8.15	48.54	56.46	7	12.93	31	8	22	7.75	54.39	45.61	8.78	₹
December	7.	8	c 143	7.93	51.75	48.25	3.50		28	\$	. 97	13.20	54.64	45.36	87.68	i
Unknown	32	89	œ	₹.	62.50	87.50	25.00		69		67	.27	100.00			
Average	8	81	150	8.33	46.00	64.00			æ	88	19	8.83	54.09	45.91		

\* Excluding deaths in unknown month.

\* Includes 2 unknown sex.

\* Less than the average number from Pneumonia, and vice versa.

\* Nine out of twelve months in which there was an excess of deaths of one sex from Consumption, and of the opposite sex from Pneumonia.

each Sex, the difference between the Sexes, and the Per Cent of Total Deaths at each Period of Age from Consumption and AND PNEUMONIA. - Exhibiting the Number and Per Cent of Deaths of TABLE XXIII. - CORRELATION OF CONSUMPTION Pneumonia in Michigan, during the Year 1882.

1			DEATHS	DEATHS FROM CONSUMPTION, 1882.	SUMPTIO	x, 1882.					DEATHS	FROM P.	DEATHS FROM PARUMONIA, 1882.	, 1882.		1
S AGES IN PERIODS		NUMBER.		01 98	Рип	PER CENT OF THE SEXES.	THE SE	XES.		NUMBER.		01 93	PER C	PER CENT OF THE SEXES.	THE SEX	ES.
OF YEARS.		Po.		of D ach A hs at	1	Po.	Excess.	688.		Fe.		he ad	-	Fe-	Excess.	. FE
	Males.	myles,	Total.	Per Cr at ea Deat	Males	males.	Males.	Fe- males.	Males.	males.	Total.	Per Ct at es Deat Ages	Males.	males.	Males.	Fe- males.
All Ages, 1882	832	979	1,804	100,00	46.19	53.88	-	7.76	403	330	*735	100.00	54.98	45.02	96'6	11
Under 5	e 42	23	6 95	b 5.27	44.21	62.29	-	11.58	*164	150	5184	P49.99	52.23	47.77	4.46	-
5 to 10	13	12	53	139	52.00	18.00	4.00	*	13	21	34	4.63	38.24	61.76	3	23.52
10 to 15	10	66	330	2.16	25.64	74.36		48.72	9	90	14 .	1.91	42.80	57.14		14.28
15 to 90	#	105	b 146	b 8.00	30.14	69,86		39.79	17.	00	6 25	b 3.40	68.00	32.00	36.00	4
20 to 25	e120	157	b 977	b15.35	43.32	26.08		13.36	a 19	17	b 36	b 4.90	52,78	47.99	5.56	
25 to 30	a 95	134	6 229	612.69	41.48	58.53		17.04	и 16	7	b 20	B 2.72	80.00	30.00	00.00	
30 to 35	a 64	100	b 164	00°6 q	39.05	86'09		21.96	. 9	00	21 4	b 1.63	75.00	25.00	20.00	U
35 to 40	a 72	20	b 142	b 7.87	50.70	49.30	1.40		* 11	6	b 20	6 9.79	25.00	45.00	10.00	
40 to 45	4.51	55	b 104	b 5.77	40.04	96.09		1.93	o 13	10	b 23	b 3.13	56.55	43.48	13.04	
45 to 50.	a 53	11	16	5.91	56.38	43.63	12.76		a 20	1	15	3.67	74.07	25.93	48.14	
50 to 55	4.51	94	26	5.38	52.58	47.42	5 16		05 w	6	20	3 93	68.97	31.03	37.94	
55 to 60	88	19	7.4	4.10	44.59	55.41	0	10.82	55	17	39	5.31	56.41	43.50	12.82	4
60 to 65.	. 51	23	88	09 ₱	61.45	38.55	99,90	· ·	* 14	13	55	6.49	40.42	92.75	0	15,16
65 to 70	41	23	71	4.10	55.41	44.59	10.82	********	13	0	21	2.99	29,00	16.01	18.18	
70 to 75	07	22	19	3.55	62,50	37.50	u	25.00	15	19	40	5.44	52 50	47.50	2,00	0
75 to 80	16	16	90	9.55	00.00	40.00	20.00	0	10	10	20	2.73	20.00	20.00	0	
80 and over	90	19	06	111	40.00	00 00	***************************************	20.00	6	80	17	2.31	52.94	47.06	5.88	
Unknown	30	17	37	2.02	24.05	45.95	8.10	***************************************	9	61	00	1.00	75,00	95.00	20.00	
Averence	87	3	101	27.50	46.15	58.85	1000	Decree of the	93	19	2	5.85	54.76	45.94		
		-	40.0	non .	WALLE OF	- Constant	-									

More than the average number of deaths of males from Consumption, and tess than the average number of deaths of males from Pneumonia, and tess than an average number and por cent of deaths from Pneumonia, and deas than an average number and por cent of deaths from Pneumonia, and deas than a average number and apportion of males from Consumption, and less than average proportion of males from Pneumonia, and wice werea.
 A Of 17 periods of 5 years each, unknown ages excluded.

TABLE XXIV.—Exhibiting, for the State and Eleven Geographical Divisions in 1882, by Sex, the Number of Deaths returned as having occurred from All Causes, from Consumption, Pneumonia, Typhoid Fever, Intermittent Fever, and Diarrhea; also, the Per Cent of Deaths from Consumption, Pneumonia, Typhoid Fever, Intermittent Fever, and Diarrhea to Deaths from All Causes.

STATE AND		A 11	Cons		Preus	EONIA.	TYP: Fev	HOID Et.	INTE TENT I	RMIT-	DIARI	RREA.
GEOGRAPH- IOAL	SEX.	Deaths from / Causes, 1882.	er of	frim frim	br of	from uses.	or of hs.	from from	er of	from	r of	2 de 1
DIVISIONS.		Death	Number of Deaths.	Per Cent to Denthe from All Causes.	Number of Deaths.	Per Cent to Desthafrom All Causes.	Number Deaths.	Por Cent to Deaths from All Causes.	Number of Deaths.	Per Cent to Deaths from All Causes.	Number of Deaths.	Per Cent to Douthe from All Causes.
	f Total	16,425	1,804	10.98	735	4.47	463	2.82	34	.21	250	1.88
0	Males	8,713	832	9.55	403	4.63	260	3.00	25	.29	144	1.65
STATEb{	Females	7,664	972	12,68	330	4.31	193	2.52	9	. 12	115	1.50
i	Unknown.	48			2	4.17	1	2.08				
	Total	1,128	66	5.85	34	3.01	55	4.88	1	.00	36	3.19
	Males	634	34	5.36	18	2.84	36	5.68	1	. 16	19	3.00
Upper Peninsular	{   Females	490	32	6.53	16	3.27	19	3.88		<b></b>	17	3.47
	Unknown.	4	<b></b>	<b></b>	<b></b>							
;	Total	483	20	6.00	20	4.14	17	3.52			7	1.45
	Males	279	17	6.09	13	4.66	p	3 23	<b></b>	•••••	4	L
Northwestern	   Females	200	12	G.00	7	3.50	8	4 00			3	1.50
ļ	!   Unknown.	4		ļ		•				•		••••
!	Total	423	28	6.62	14	3.31	20	4.73		•••••	1	.94
	Males	217	12	5.53	8	3 69	14	6.45			1	.46
Northern	Females	204	16	7.84	6	2.94	6	2.94	<b></b>			
į,	Unknown.	2					•••••	•••••				•••••
,	Total	230	11	1.78	7	3 04	1	.43			3	1.30
Mantheonton	Males	126	3	2.38	6	4.76	•	•••••	•••••		1	.79
Northeastern	Fomales	103	ક	7.77	1	.97	1	.97	•••••		2	1.94
ì	Unknown.	1		•••••				•				
Į.	Total	2,007	203	10.11	100	4.98	57	2.84	7	35	60	2.00
Western	Males	1.060	91	8.58	53	5.00	32	3.02	5	.47	34	3.91
Western	Females	939	112	11.93	47	5.01	25	2.66	2	.21	26	2.77
į	Unknown.	8			<b></b>	<b></b>		•••••	•••••			•••••
!	Total	471	48	10.19	19	4.03	21	4 46	2	.42	3	.64
Northern Central	Males	256	22	8.59	13	4.30	16	6.25	2	.78	3	1.17
Northern Central	Females	218	26	12.21	8	3.76	5	2.35	•••••			
i	Unknown.	ភ						•	·			
ļ	Total	2,596	262	10.09	136	5.24	67	2.58	7	.27	51	196
Bay and Eastern	Maels	1,437	129	8.98	78	5.43	40	2.78	6	.42	26	1.81
Day and Pastolli	Females	1,152	133	11 55	58	5.03	26	2.26	1	.00	25	2.17
		7						14.29				

a For counties included in each division, see page 184.

b For counties and townships from which no returns of deaths for 1882 were received, see
Exhibit H, page 159. For those in which no deaths occurred, see Exhibit I, page 160.

TABLE XXIV .- CONTINUED.

GEOGRAPH-		n A11 #82.	Cons	DN.	Paru	ONIA.	TYP			RMIT- FEVER.	DIAB	REELA.
ICAL DIVISIONS.	SEX.	Deaths from All Causes, 1882.	Number of Deaths.	Per Cent to Deuths from All Causes.	Number of Deaths.	Per Cent to Deaths from All Causes.	Number of Deaths.	Per Cent to Deaths from All Causes	Number of Deaths.	Per Cent to Deaths from All Causes.	Number of Deaths.	Per Cent to Denths from All Causes.
•	[Total	2,286	280	12.52	122	5.46	72	3.22	4	.18	9	.40
Central	Males	1,163	117	10.06	77	6.62	42	3.61	8	.26	6	.52
Сельгаі	Females	1,067	163	15.28	45	4.23	30	. 2.81	1	.09	3	.28
	Unknown.	6										
	Total	1,082	152	14.05	57	5.27	33	8.05	1	.09	5	.46
Southwestern	Males	557	71	12.75	24	4.31	15	2 60	1	.18	2	.34
OGGER WORLD	Females	518	81	15.64	31	5.98	18	3.47		,	3	.58
	Unknown.	7			2	23.57		•	•			
	Total	2,405	325	13.51	112	4.66	56	2.83	5	.21	11	.46
Southern Central	Males	1,242	146	11.76	59	4.75	26	2.09	8	.24	8	.64
	Females	1,159	179	15.44	53	4.57	30	2.59	2	.17	3	.26
	Unknown.	4	•••••		•			•				
	Total	3,364	400	11.89	114	3 30	64	1 90	7	.21	78	2.17
Sontheastern	Males	1,742	190	10,91	56	8.21	39	2.24	4	.23	40	2.30
	Females	1,619	210	12.97	58	3.58	95	1.54	3	.19	83	8.04
1	(Unknown.	3	•••••							•		

<sup>•</sup> For counties in each Division, see page 184.

TABLE XXV.—Exhibiting, for the State, and by Counties, for the Year 1882, the Number of Deaths from All Causes, from Consumption, Pneumonia, Typhoid Fever, Intermittent Fever, and Diarrhea; also the Per Cent of Deaths from Consumption, Pneumonia, Typhoid Fever, Intermittent Fever, and Diarrhea, to Deaths from All Causes.

		Соявт	MPTION.	Part	MONIA.		PHOID EVER.	INTER F1	MITTENT IVER.	DIA	RRHRA.
COUNTIES.	Deaths from All Causes, 1882,	Number of Deliths.	Per Cent to Deathsfrom All Causes.	Number of Deaths.	Per Cent to Deathsfrom All Causes.	Number of Deaths.	Per Cent to Deaths from All Causes.	Number of Deaths.	Per Cent to Deaths from All Causes.	Number of Deaths.	Per Cent to Deathsfrom All Causes.
State	16,425	1,804	10.98	735	4.47	463	2.82	34	.21	259	1.58
Alcona	9									1	11.11
Allegan	382	57	14.92	18	4.71	11	2.88			3	.79
Alpena	87	6	6.90	4	4.60					1	1.15
Antrim	78	3	3.85	1	1.28	8	10.26				
Baraga	41	1	2.44	2	4.88	1	2.44				
Barry	181	23	12.71	13	7.18	5	2.76			1	.55
Вау	503	65	12.92	24	4.77	16	3.18	2	.40	10	1.99
Benzie	54	6	11.11			1	1.85				
Berrien	333	45	13.51	18	5.41	9	2.70			2	.60
Branch	207	23	11.11	12	5.80	7	3.38				
Calhoun	264	37	14.02	9	3.41	4	1.52				
Cass	163	25	15.34	9	5.52	5	3.07				*****
Charlevoix	94	10	10.64	4	4.26	3	3.19				
Cheboygan	78	6	7.69	1	1.28	4	5.13			1	1.28
Chippewa	80	14	17.50			6	7.50			3	3.75
Clare	41	3	7.32	1	2.44	1	2.44				
Clinton	191	21	10.99	5	2.62	6	3.14		••••		
Crawford	15					1	6.67			•	
Delta	51	4	7.84	1	1.96	1	1.96	1	1.96		
Eaton	202	30	14.85	8	3.96	7	3.47				
Emmet	95	6	6.32	5	5.26	1	1.05				
Genesee	341	46	13.49	27	7.92	6	1.76		•	4	1.17
Gladwin	6	1	16.67						••••••		
G'd Traverse	44	2	4.55	2	4.55	1	2.27		•••••		
Gratiot	166	20	12.05	9	5.42	4	2.41				
Hillsdale	236	39	16.53	9	3.81	6	2.54			1	.42
Houghton	250	17	6.80	5	2.00	4	1.60			13	5.20
Huron	150	8	5.33	7	4.67	4	2.67			4	2,67
Ingham	249	42	16.87	12	4.82	12	4.82	2	.80		
Ionia	290	29	10.00	5	1.72	8	2.76	2	.69		

TABLE XXV.—CONTINUED.

		Consu	MPTION.	Preu	MONIA.	Typ	HOID	INTER: FE	CITTENT VER.	DIAB	RHEA.
COUNTIES.	Deaths from All Causes, 1882.	Number of Deaths.	Per Cent to Deaths from All Causes.	Number of Deaths.	Per Cent to Deaths from All Causes.	Number of Deaths.	Per Cent to Deaths from All Causes.	Number of -Deaths.	Per Cent to Deaths from All Causes.	Number of Deaths.	Per Cent to Deaths from All Causes.
Iosco	55	2	3.64	2	3.64	1	1.82			1	1.82
Isabella	135	21	15.56	5	3.70	4	2.96	1	.74	1	.74
Jackson	356	33	9.27	18	5.06	3	.84	1	.28	3	.84
Kalamazoo	338	45	13.31	25	7.40	2	.59	2	.59		
Kalkaska	46	1	2.17	1	2.17	2	4.35				
Kent	809	111	13.72	<b>3</b> 8	4.70	24	2.97	3	.37	37	4.57
Keweenaw	101	5	4.95	6	5.94	7	6.93			5	4.95
Lake	37	1	2.70	1	2.70	2	5.41		•	1	2,70
Lapeer	245	23	9.39	20	8.16	7	2.86			1	.41
Leelanaw	39	5	12.82	2	5.13	2	5.13	<b></b>			
Lenawee	401	65	16,21	12	2.99	19	4,74	<b></b>		5	1.25
Livingston	178	20	11.24	10	5.62	10	5.62	<b></b>		2	1.12
Mackinac	18	1	5.56	1	5.56	8	16.67	<b>-</b> -			
Macomb	267	52	19,48	6	2.25	4	1.50			7	2.62
Manistee	219	10	4.57	8	3 65	10	4,57			6	2.74
Manitou	11	2	18.18	1	9.09						
Marquette	419	19	4.53	13	3.10	27	6.44	<b></b>		13	8.10
Mason	80	6	7.50	4	5,00	1	1.25			<b></b>	
Mecosta	193	11	5.70	10	5.18	15	7.77	1	.52	1	.52
Menominee	93	2	2.15	2	2.15	2	2.15			2	2.15
Midland	87	12	13.79	3	3.45					1	1.15
Missaukeo	32			2	6.25	1	3.13			1	3.13
Monroe	302	36	11.92	14	4.64	7	2.82	1	.33	3	.99
Montcalm	278	29	10.43	22	7.91	8	2.88			1	.36
Montmorency	2	<b> </b>					ļ				
Muskegon	339	20	5.90	13	3.83	10	2.95	1	.29	8	2.36
Newaygo	131	10	7.63	6	4.58	7	5.34	<b> </b>		6	4.58
Oakland	341	46	13.49	16	4.69	8	2.35			2	.50
Oceana	137	15	10.95	9	6.57	2	1.46				ļ
Ogemaw	32			1	3.13		<b> </b>				<b></b>
Ontonagon	36	1	2.78	3	8.33	4	11.11			<b> </b>	ļ <b>.</b>
Osceola	107	8	7.48	7	6.54	3	2.80	1	.93	 	<b> </b>
Oscoda	. 7			. <b></b>			ļ				ļ
Otsego	. 17	2	11.76	2	11.76	1	5.88				<b> </b>
Ottawa	367	32	8.72	22	5.99	8	2.18	2	.54	8	2,18

# VITAL STATISTICS OF MICHIGAN, 1882.

### TABLE XXV.—Continued.

		Сожат	MPTION.	Pse	AIROMIA.	Ty:	PHOID EVER.	LETER Fi	MITTRUT IVER.	DIA	RRBRA.
COUNTIES.	Deaths from All Causes, 1882.	Number of Desths.	Per Cent to Deaths from All Causes.	Number of Doaths.	Per Cent to Deaths from All Causes.	Number of Deaths.	Per Cent to Deaths from All Causes.	Number of Deaths.	Per Cent 10 Deaths from All Causes.	Number of Deaths.	Per Cent to Deathsfrom All Causes.
Presque isle	38	3	7.89	<b></b>	 		 	ļ			<b></b>
Roscommon	9	<b> </b>				1	11.11				
Saginaw	848	<b>દ</b> 2	9.67	50	5.90	19	2.94	3	.35	28	8.30
Sanilac	193	13	6.74	7	3.63	6	3.11	1	.5%	3	1.58
Schoolcraft	39	2	5.13	1	2.56	·		<b></b>			
Shiawasseo	160	20	12.50	11	6.88	6	3.75			1	6.25
St. Clair	405	48	11.85	19	4.69	9	2 23	1	.95	5	1.23
St. Joseph	252	38	15.08	14	5.56	4	1.59	•••••	<b></b> -	1	.40
Tuscola	252	23	9.13	9	3.57	6	2.88				
Van Buren	204	25	12.25	12	5.88	8	3.99	1	.49		
Washtenaw	351	45	12.82	13	3.70	11	8.13	3	.57	1	.28
Wayne	2,454	266	10.80	78	3.18	45	1.83	6	.24	61	2,49
Wexford	84	4	4.76	5	5.95	2	2.38				

TABLE XXVI.—Exhibiting, for the State and Eleven Geographical Divisions of Michigan, by Sex, the Number of Deaths Returned as having occurred at All Ages, from Old Age, of All Ayed 70 and Over, and of all aged under 5; also the Per Cent of Deaths from Old Age, of all Aged 70 and Over, and of All Aged Under 5, to Deaths at All Ages, during the Year 1882.

			OLD A	or, 1882.		70 AND	AGED	Under 5
STATE AND GEOGRAPHICAL DIVISIONS.	. SEX.	Deaths at All Ages, 1882.	Number of Deaths.	Per Cent to Deaths at All Ages, by Geographical Divisions.	Number of Deaths.	Per Cent to Deaths at All Ages, by Geo- graphical Divisions.	Number of Deaths.	Per Cent to Deaths at All Ages, by Geo- graphical Divisions.
	[Total	16,425	647	₩04	1,775	10.81	0,375	38.81
94-4-	Males	8,713	317	3.64	1,010	11.50	3,452	89.62
8tateb	Females	7,664	330	4.31	765	9.98	2,879	37.57
	Unknown	48	<b>-</b>		••••		44	91.67
	[Total	1,128	19	1.68	41	3.63	590	52.30
Warran Danisanian	Males	634	10	1.58	23	3.63	315	49.68
Upper-Peninsular	Females	490	9	1.84	18	3.67	271	55.81
	Unknown	1	····	•••••	••••	********	4	100.00
	Total	483	7	1.45	29	6.00	234	48.46
Korth-western	Males	279	2	.72	18	6.45	139	49.82
MOLIN-MERIRIT	Females	200	5	2.50	11	5.50	91	45.50
	Unknown	4		<b>.</b>	<b></b> ·····	**********	4	100.00
	Total	423	8	1.89	16	3.78	194	45.86
Worthern	Males	217	3	1.38	8	2.60	106	48.85
AVITAGIBALL	Females	904	2	2.45	8	392	86	42.16
	Unknown	3	••••••	•			2	100.00
	Total	230	2	2.17	10	4.35	133	57.83
North-eastern	Males	126	4	8.17	7	3.56	70	55.56
MALER-CORPORATION	Females	103	1	.97	3	2.01	02	60.19
	(Unknown	1	•••••		••••• •		ī	100.00
	Total	2,007	53	2.64	155	7.72	870	43.35
Western	Males	1,000	27	2.55	95	8.96	477	45.00
W CDFGLD	Females	939	26	2.77	60	6.30	386	41.11
	Unknown	8					7	87.50

<sup>•</sup> For counties included in each Division, see page 184.
• For counties and townships from which no returns in 1882 were received, see Exhibit H, page 189; for those in which no deaths occurred, see Exhibit I, page 160.

### TABLE XXVI.—CONTINUED.

			OLD A	GE, 1882.		70 and Ter.	AGED 1	Under 5.
GEOGRAPHICAL DIVISIONS.	SEX.	Deaths at All Ages, 1882.	Number of Deaths.	Per Cent to Deaths at All Ages, by Geo- graphical Divisions.	Number of Deaths.	Per Cent to Deaths at All Ages, by Geo- graphical Divisions.	Number of Deaths.	Per Cent to Deaths at All Ages, by Geo- graphical Divisions.
	Total	471	12	2.55	21	4.46	200	42.46
Wash and damage	Males	256	11	4.30	19	7.42	106	41.41
Northern-Central	Females	213	1	.47	2	.94	93	43.60
	Unknown	2					1	50.00
	Total	2,596	107	4.12	215	8.28	1.178	45.8
Bay and Eastern	Males	1,437	49	3.41	119	8.28	660	45.90
Day and Edstern	Females	1,152	58	5.03	93	8.33	513	44.51
İ	Unknown	7		•••••		·····-	5	71.4
	Total	2,236	84	3 76	303	13.55	718	32.11
Central	Males	1,163	41	3.53	176	15.13	389	33.4
VVE1181	Females	1,067	43	4.03	127	11.90	323	30.27
	Unknown	6					6	100.60
	Total	1,082	53	4.90	156	14.43	333	80.71
South-western	Males	557	21	3.77	87	15.62	174	31.9
,	Females	518	32	6.18	69	13.32	152	29.8
	Unknown	7	ļ	•••••			7	100.00
	Total	2,405	142	5.90	478	19.88	581	24.14
Southern Central	Males	2,242	70	5.64	269	21.66	824	26.0
CORNELL DICTION OF THE PARTY OF	Females	1,159	72	6.21	209	18.03	253	21.8
	Unknown	4			*********		4	100.0
	Total	3,364	137	4 67	351	10.43	1,344	39.90
South-eastern	Males	1,742	79	4.54	189	10.85	692	39.7
	Females	1,619	78	4.82	162	10.01	649	40.0
	Unknown	3		<b></b>	4		8	100.0

For counties included in each Division, see page 184.

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			DEATHS	DEATHS FROM CONSUMPTION, 1882.	SUMPTIC	,x, 1882,					DEATHS	DEATHS FROM PURUMONIA, 1882.	MUNONIA	, 1882.		
UES IN PERIODS		NUMBER.		01 98	PRR	CENT OF	PER CENT OF THE SEXES	KES.		NUMBER.		01 02	PER C	PER CENT OF THE SAXES.	THE SAX	ES.
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1	Males.	males.	Total.		Males	males.	Males.	Fe- males.	Males.	males.	Total.	Per Ct nt ei Dent Ages	Males.	males.	Males.	Fe- males.
All Ages, 1882	833	979	1,804	100.00	46.19	53.88		7.76	403	330	*735	100,00	24,08	45.02	96'6	11
Under 5	n 43	53	b 95	b 5.27	44.91	55 79	1	11.58	*164	150	1816	642.99	52.23	17.77	4.46	-
5 to 10	13	12	23	1.39	52.00	48.00	4.00		13	21	34	4.63	38.24	61.76	0	23.52
10 to 15	10	66	30	2.16	25.64	74.36		48.72	9	80	14	1.01	42,86	57.14		14.28
15 to 20	#	102	b 146	b 8.00	30.14	69.86	2	39.72	17.	90	8 25	b 3.40	68.00	35.00	36.00	2
20 to 25	#120	157	t 277	b15.35	43.32	20.08	*********	13.36	0 l a	11	98 9	p 4.90	52,78	47.22	2.56	-
25 to 30	96 ч	134	6 539	612.69	41.48	58.53		17.04	4 16	7	b 20	b 9.72	80.00	30.00	60.00	0
30 to 35	19 m	100	b 164	6 9.09	39.05	80.09	.0	21.96	e a	00	0 19	b 1.63	75.00	25.00	20.00	U
35 to 40	. 73	70	b 142	b 7.87	50.70	49.30	1.40		a 11	6	6 20	t 2.79	22.00	45.00	10.00	
40 to 45	19 1	53	b 104	b 5.77	40.04	96.09	***************************************	1.93	a 13	10	b 23	b 3,13	26.52	43,48	13.04	
45 to 50.	a 53	11	16	5.21	56,38	43.62	12.76		06.9	1	27	3.67	74.07	25.93	48.14	
50 to 55	, 51	99	26	5.38	59.58	47.42	5 16		e 20	6	88	3.95	68.97	31.03	37.94	
55 to 60.	33	41	7.4	4.10	44.59	55.41	9	10,82	81	17	88	5.31	56.41	43.59	12.85	
60 to 65	10 # 17	325	83	4 60	61.45	38.55	90,90	0	* 14	19	33	4.49	42 42	92.70	0	15,16
65 to 70	41	333	1.4	4.10	55.41	44.59	10.85		13	6	55	2.99	29.00	40.91	18.18	
70 to 75	40	16	19	3.55	69,50	37.50	2	25.00	15	19	40	5.44	52 50	47.50	2,00	0
75 to 80	6	16	90	0.90	00.00	40.00	20.00	0	10	10	50	2.73	20.00	20.00		
80 and over	80	12	50	111	40.00	00 00	********	20.00	6	90	17	2.31	52.94	47.06	5.88	
Unknown	30	17	37	2.05	54.05	45.95	8.10		9	67	00	1.00	75,00	55.00	20.00	1
Average	48	92	101	5.76	46.15	53.85			83	19	13	5.85	54.76	45.94	-	
																1

\* More than the average number of deaths of males from Consumption, and less than the average number of deaths of males from Pneumonia, and vise stan an average number and per cent of deaths from Consumption, and less than an average number and per cent of deaths from Pneumonia, and less than a verage proportion of males from Consumption, and less than average proportion of males from Pneumonia, and wice verage and less than average proportion of males from Pneumonia, and wice verage and 17 periods of 5 years each, unknown ages excluded,

TABLE XXIV.—Exhibiting, for the State and Eleven Geographical Divisions in 1882, by Sex, the Number of Deaths returned as having occurred from All Causes, from Consumption, Pneumonia, Typhoid Fever, Intermittent Fever and Diarrhea, also, the Per Cent of Deaths from Consumption, Pneumonia, Typhoid Fever, Intermittent Fever and Diarrhea to Deaths from All Causes.

STATE AND		A 11 A 11	Const	UMP- ON.	PNEUS	IONIA.	TYP! Fev	BOID	INTE TEXT I	EMIT-	DIARI	RH EA.
GEOGRAPH-	SEX.	ron List	ö	2 5 5	٠ ت	SE :	ا ٥	S E 5	8	S E .	<b>u</b>	12 5 5
ICAL	SEA.	hs	the.	Sent a fr	bor	Sent aus	bor	on the	tha.	ent s fr	the F	112
DIVISIONS.		Deaths from A	Number of Deaths.	Per Cent to Deaths from All Causes.	Number of Deaths.	Per Cent to Desthafrom All Causes.	Number Ocaths.	Por Cont to Deaths from All Causes.	Number of Doaths.	Per Cent to Denths from All Causes.	Number of	Per Cent to Douths from All Causes.
	f Total	16,425	1,804	10.98	735	4.47	463	2.82	34	.21	250	1.88
Almama h	Malcs	8,713	832	9.55	403	4.63	289	3.00	25	.29	144	1.65
STATEb.	Females	7,664	972	12,68	330	4.31	193	2.52	9	.12	115	1.50
	Unknown.	48			2	4.17	1	2.08				
	Total	1,128	66	5.85	34	3.01	55	4.88	1	.09	36	3.19
	Males	634	34	5.36	18	2.84	36	5.68	1	. 16	19	3.00
Upper Peninsular	{   Female∗	490	32	6.53	16	3.27	19	3.88			17	3.47
	Unknown.	4						<b> </b>	<b></b>			
	Total	483	20	6.00	20	4.14	17	3.52	<b></b>		7	1.45
•• • • • • • • • • • • • • • • • • • • •	Males	279	17	6.09	13	4.66	9	3 23			4	L
Northwestern	   Females	200	12	6.00	7	3.50	8	4 00			3	1.50
	Unknown.	4										•••••
	Total	423	28	6.62	14	3.31	20	4.73			1	.94
	Males	217	12	5.53	8	3 60	14	6.45			1	.46
Northern	Females	204	16	7.84	6	2.94	6	294	<b></b>			
	Unknown.	2										
	f Total	230	11	1.78	; 7	3 04	1	.43			3	1.300
	Males	126	3	2.38	6	4.76					1	.19
Northeastern	Females	103	8	7.77	1	.97	1	.97			2	1.9
	Unknown.	1				<u>.</u>						
	Total	2,007	203	10.11	100	4.98	57	2.84	7	35	60	2.99
***	Males	1.CG0	91	8.58	53	5.00	32	3.02	5	.47	34	3.31
Western	Females	939	112	11.93	47	5.01	25	2.66	2	.21	26	2.77
	Unknown.	8							•••••			
	Total	471	48	10.19	19	4.03	21	4 46	2	.42	3	.61
Name Or and	Males	256	22	8.59	11	4.30	16	6.25	2	.78	3	1.17
Northern Central	Females	213	26	12.21	ų	3.76	5	2.35			•••••	
	t Unknown.	73									•	
	Total	2,596	262	10.09	136	5.24	67	2.58	7	.27	51	1.96
War and Pastern	Maels	1,437	129	8.98	78	5.43	40	2.78	6	.42	26	1.81
Bay and Eastern	Females	1,152	133	11 55	58	5.03	26	2.26	1	.00	25	2.17
	Unknown.	7			¦;		1	14.29				

a For counties included in each division, see page 184.
b For counties and townships from which no returns the for 1882 were received, see Exhibit H, page 159. For those in which no deaths occur.

### CAUSES OF DEATH,-OLD AGE, ETC.

#### TABLE XVII.—CONTINUED.

	ALL Ages.	Ord	Age.	AGED 70	AND OVER,	AGED (	JNDER 5.
COUNTIES.	Number of Deaths, 1982.	Number of Deaths.	Per Cent to Deaths at All Ages.	Number of Deaths.	Per Cent to Deaths at All Ages,	Number of Deaths.	Per Cent to Deathe at All Ages.
Saginaw	ε <b>48</b>	84	4.01	61	7.19	897	46.82
Sanilac	193	13	6.74	21	10 88	89	46.11
Schoolcraft	89					16	41.00
Shiawassee	160	7	4.38	30	18.78	50	31.25
St. Clair	405	18	4.44	44	10.86	156	38.59
8t. Joseph	25%	15	5.95	46	18.25	73	28.97
Tuscols	252	11	4 87	21	8.83	108	42,86
Van Buren	204	7	3.43	88	18.63	61	29.90
Washtenaw	851	21	5.98	67	19.09	87	94.79
Wayne	2,454	115	4 69	207	8.44	1,071	48,64
Wexford	84			5	5.95	39	46.45

TABLE XXV.—Exhibiting, for the State, and by Counties, for the Year 1882, the Number of Deaths from All Causes, from Consumption, Pneumonia, Typhoid Fever, Intermittent Fever, and Diarrhea; also the Per Cent of Deaths from Consumption, Pneumonia, Typhoid Fever, Intermittent Fever, and Diarrhea, to Deaths from All Causes.

		Const	MPTION.	PNET	MONIA.		PHOID VER.		MITTERT VER.	DIA	RRHEA.
· STATE AND COUNTIES.	Deaths from All Causes, 1882,	Number of Deaths.	Per Cent to Deathsfrom All Causes.	Number of Deaths.	Per Cent to Deaths from All Causes.	Number of Deaths.	Per Cent to Deaths from All Causes.	Number of Deaths.	Per Cent to Deaths from All Causes.	Number of Deaths.	Per Cent to Deaths from All Causos.
State	16,425	1,804	10.98	735	4.47	463	2.82	34	.21	259	1.58
Alcona	9									1	11.11
Allegan	382	57	14.92	18	4.71	11	2.88			3	.79
lipena	87	6	6.90	4	4.60					1	1.15
ntrim	78	3	3,85	1	1.28	8	10.26	•			
Baraga	41	1	2.44	2	4.88	1	2.44				
Barry	181	23	12.71	13	7.18	5	2.76			1	.55
Вау	503	65	12.92	24	4.77	16	3.18	2	.40	10	1.99
Benzie	54	6	11.11			1	1.85				
Berrien	333	45	13.51	18	5.41	9	2.70			2	.60
Branch	207	23	11.11	12	5.80	7	3.38	<b></b>			
Calhoun	264	37	14.02	9	3.41	4	1.52				
Casa	163	25	15.34	9	5.52	5	3.07				
Charlevoix	94	10	10.64	4	4.26	3	3.19			<b></b> -	
Cheboygan	78	6	7.69	1	1.28	4	5.13			1	1.28
hippewa	80	14	17.50			6	7.50			3	3.75
Clare	41	3	7.32	1	2.44	1	2.44				
Clinton	191	21	10.99	5	2.62	6	3.14				
Crawford	15					1	6.67				
Delta	51	4	7.84	1	1.96	1	1.96	1	1.96		
Eaton	202	30	14.85	8	3.96	7	3.47				
Emmet	95	6	6.32	5	5.26	1	1.05	ļ		ļ	
Genesee	341	46	13.49	27	7.92	6	1.76			4	1
Gladwin	6	1	16.67		ļ					·	<i>-</i> -
G'd Traverse	44	2	4.55	2	4.55	1	2.27				— ·
Gratiot	166	20	12.05	9	5.42	4	2.41				·
Hillsdale	236	39	16.53	9	3.81	6	2.54			1	
Houghton	250	17	6.80	5	2.00	4	1.60			13	
Huron	150	8	5.33	7	**-	•				•	
Ingham	249	49	14	•							
Ionia	290	l									

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24 Widowed.	54 Married			11 Unknown.	85 'Fotal]	-	-	5 Widowed.	20 Unknown. J	1,572 Total ]	-	1	118 Widowed.	33 Unknown. J	825 Total	479 Married	-	-	18 Unknown. J	747 Total )	388 Married	200 Single }	54 Widowed.	15 Unknown. j
-	1 1	- 6% Single	19 Widowed.	11 Unknown. J	Ot	1 I7 Married	Single	10	:	2	2 867 Married	2 551 Single	-	1	2 825 Total	1 479 Married	1 264 Single	64 Widowed.	18 Unknown. J	3 747 Total)	1 388 Married	1 200 Single	-	-
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## VITAL STATISTICS OF MICHIGAN, 1882.

### TABLE XXV.—CONTINUED.

		Сожат	MPTION.	Page	MONIA.	Ty:	PHOID EVER.	LETER F:	MITTENT IVER.	DIA	RRREA.
COUNTIES.	Deaths from All Causes, 1882.	Number of Deaths.	Per Cent to Deaths from All Causes.	Number of Deaths.	Per Cent to Deaths from All Causes.	Number of Deaths.	Per Cent to Deaths from All Causes.	Number of Deaths.	Per Cent to Deaths from All Causes.	Number of Deaths.	Per Cent to Deaths from All Causes.
Presque Isle	38	3	7.89						 		<b></b>
Roscommon	9		<b></b>			1	11.11			ļ	<b></b>
Saginaw	848	82	9.67	50	5.90	19	2.24	3	.35	28	2.30
Sanilac	193	13	6.74	7	3.63	6	8.11	1	.59	3	1.55
Schoolcraft	39	2	5.13	1	2.56			<b></b> .	<b></b>		
Shiawassee	160	20	12.50	11	6.88	6	3.75	<b></b> .		1	6.95
St. Clair	405	48	11.85	19	4.69	9	2 23	1	.25	5	1.53
St. Joseph	252	<b>3</b> 8	15.08	14	5.56	4	1.59		<b></b>	1	.40
Tuscola	252	23	9.18	9	3.57	6	2.88				
Van Buren	204	25	12.25	12	5.88	8	8.99	1	.49		
Washtenaw	351	45	12.82	13	3.70	11	2.13	3	.57	1	.98
Wayne	2,454	266	10.80	78	3.18	45	1.83	6	.24	61	2.00
Wexford	84	4	4.76	5	5.95	2	2.38				

TABLE XXVI.—Exhibiting, for the State and Eleven Geographical Divisions of Michigan, by Sex, the Number of Deaths Returned as having occurred at All Ages, from Old Age, of All Aged 70 and Over, and of all aged under 5; also the Per Cent of Deaths from Old Age, of all Aged 70 and Over, and of All Aged Under 5, to Deaths at All Ages, during the Year 1882.

			OLD A	AGE, 1882.		70 AND VER.	AGED	Under 5
STATE AND GEOGRAPHICAL DIVISIONS.	. HRX.	Deaths at All Ages, 1882.	Number of Deaths.	Pe Cent to Deaths at All Ages, by Geo- graphical Divisions.	Number of Deathe.	Per Cent to Deaths at All Ages, by Geo- graphical Divisions.	Number of Deaths.	Per Cent to Deaths at All Ages, by Geo- graphical Divisions.
	[Tota]	16,425	647	₩04	1,775	10.81	6,375	38.8
8444	Males	8,713	317	3.64	1,010	11.59	3,452	39.65
<b>State</b> b	Females	7,664	330	4.31	765	9.93	2,879	37.57
	Unknown	48	******		*******	••••••••••••••••••••••••••••••••••••••	44	91.67
	[Total	1,128	19	1.68	41	3.63	390	52.30
War on Bankasalan	Males	634	10	1.58	23	3.63	315	49.68
Upper-Peninsular	Females	490	23	1.84	18	3.67	271	55.81
	Unknown	4	**** >**		*******	•••••	4	100.00
	Tota)	483	7	1.45	29	6.00	234	48.46
Korth-western	Males	279	3	.72	18	6.45	139	49.82
WOLTO- M CREALD	Females	200	5	2.50	11	5.50	91	45.50
	Unknown	4				•••••		100.00
	Total	423	8	1.89	16	3.78	194	45.86
Northern	Males	217	3	1.38	8	<b>3.60</b>	106	48.85
	Females	204	2	2.45	8	3 92	86	42.16
	Unknown	3			******	••••••	-2	100.00
	Total	230	5	2.17	10	4.35	133	57.83
North-eastern	Males	126	4	8.17	7	3.56	70	55.56
210102-0220012-1111	Females	103	1	.97	3	2.91	02	60.19
	Unknown	1				•	1	100.00
	Total	2,007	53	2.64	155	7.72	870	43.85
Western	Males	1,060	27	2.55	95	8.96	477	45.00
17 CUTCA M	Females	939	26	2.77	60	6.30	386	4L31
	Unknown	8					7	87.50

<sup>•</sup> For counties included in each Division, see page 184.
• For counties and townships from which no returns in 1882 were received, see Exhibit H, page 189; for those in which no deaths occurred, see Exhibit I, page 160.

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TABLE XXVII.—Exhibiting, for the State and Counties of Michigan, the Number of Deaths Returned as having occurred at All Ages, from Old Age, of All Aged 70 and Over, and of All Aged Under 5; also, the Per Cent of Deaths from Old Age, of All Aged 70 and Over, and of All Aged Under 5, to Deaths at All Ages, for the Year 1882.

STATE	ALL AGES.	Orp	AGE.	AGED 70	AND OVER.	AGED (	INDER 5,
AND COUNTIES.	Number of Deaths, 1882.	Number of Deaths.	Per Cent to Deaths at All Ages.	Number of Deaths.	Per Cent to Deaths at All Ages.	Number of Deaths.	Per Cent to Death at All Ages.
State	16,425	647	3.94	1,775	10.81	6,375	38.8
Alcona	9			1	11.11	4	44.4
Allegan	382	18	4.71	44	11.52	141	36.9
Alpena	87	3	3.45	3	3.45	61	70.1
Antrim	78	1	1.29	4	5.13	42	53.8
Baraga	41					24	58.5
Barry	181	2	1.10	19	10.50	64	35.3
Bay	503	15	2.98	24	4.77	273	54.2
Benzie	54	1	1.85	3	5.56	31	57.4
Berrien	333	18	5.41	50	15,02	95	28.5
Branch	207	6	2.90	38	18.36	33	25.6
Calhoun	264	15	5.68	57	21.59	67	25.3
Cass	163	10	6.13	24	14.72	36	22.0
Charlevoix	94	2	2.13	3	3.19	38	40.4
Cheboygan	78	2	2.56	2	2.56	39	50.0
Chippewa	80	4	5.00	5	6.25	30	37.
Clare	41	1	2.44	2	4.88	21	51.
Clinton	191	5	2.62	29	15.18	56	· 29.
Crawford	15			<b></b>		7	46.
Delta	51	1	1.96	2	3.92	21	41.
Eaton	202	12	5.94	30	14.85	56	27.
Emmet	95	.3	3.16	5	5.26	45	47.
Genesee	341	10	2.93	48	14.08	102	29.
Gladwin	6					4	66.
Grand Traverse	44	2	4.55	7	15.91	15	34.
Gratiot	166	6	3.61	20	12.05	67	40.
Hillsdale	236	25	10.59	59	25.00	35	14.
Houghton	250	3	1.20	6	2.40	146	58.
Huron	150	5	3.33	l n	7.33	75	50.
Ingham	249	11	4 42	37	14.86	75	30.
Ionia	290	10	3.45	31	10 69	80	27.
Iosco	55			. 2	3.64	33	60.

TABLE XXVIII.—Continued.—Deaths from Consumption, 1882.

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	Укан, Соизивал. 1882. Соинтиок.	Single	Total	Married	Single	Unknown.	Single	Married	Single	Married.	Singlo		Total	Married	Widowed.	Total	single	Widowed.	Single	Single	Married	
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	November.	-	1	1	1	i	1		1			00										
	October,	1	1	1	1	1	1	1	-													
	September.	1	1	1	1	1	1	1	- 1	1												
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a Total	1 Single	Widowed.	1 Married	- 1 Unknown.	2 Single	2 Total	1 Married	1 3lr.gle	4 Total	3 Married	Widowed.	. 1 2 Total	1 1 Married	1 Widowed.	1 single	1 1	2 Total	1 Married	1 Single	1 1 3 Total	1 Married	1 Single	Widowed.		1 Single	4 3 7 5 64
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TABLE XXVIII.—Consumption.—Exhibiting, for the Year and Months, by Sex, the Conjugal Condition, Occupation, and Age in Periods of Years, of All Persons returned as having Died from Consumption in Michigan during the Year ending December 31, 1882.

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r L	45 to 50.	94	5,	00	7	00	4	55	- 1	9	4	83	41	00	10	*	27	10	-
0	40 to 45.	101	87	10	00	48	53	44	4	01	03	10	43	8	-	-	12	9	*
RRIODS	32 to 40.	149	108	83	7	7	10	90	+	54.	7	2	48	16	10	00	77	1	7
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SEX	AND		TOTAL DEATHS	FROM	CONSUMPTION.				FEMALES.					MALES.				Occupations	Thirmouni
	CONJUGAL CONDITION.	Total	Married	Single	Widowed	Unknown.	972 Total	533 Married	327 Single	Widowed.	Unknown.	832 Total	Married	Single	Widowed.	Unknown.	232 Total	Married	100 Gingle
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ONTHS,	June. July. August.	152 151 131	87 68	20 48	16 10 0	4 6	87 65	42 35	16	60	*	64 66	35 45 33	26 16 24	3		17 16	60	0
NTHS,	May. June. July. August. September.	194 152 151 131	104 74 87 68	70 55 50 48	16 10 0	8 7 4 6	98 82 87 65	29 42 35	31 29 34 24	11 7 3	4 60	70 64 68	46 35 45 33	39 26 16 24	60	- P - Q	15 17 16	6 3 5	2 0 2
ONTHS,	April. May. June. Juny. Angust. September.	163 194 152 151 131	104 74 87 68	70 55 50 48	12 16 10 0	8 7 4 6	85 98 82 87 65	58 39 42 35	31 29 34 24	6 11 7 3	\$ cc cc	96 70 64 66	46 35 45 33	33 39 26 16 24	6 5 8	- P - Q	28 24 15 17 16	6 3 5	0 2 11 0
ONTHS,	April. May. June. Juny. Angust. September.	194 152 151 131	77 82 104 74 87 68	68 61 70 55 50 48	15 12 16 10 0	7 8 8 7 4 6	85 98 82 87 65	44 44 58 39 49 35	31 29 31 29 34 24	10 6 11 7 3	4 60	81 78 96 70 64 66	38 46 35 45 33	37 33 39 26 16 24	4 5 6 5 3 6	7 2 5 4	28 24 15 17 16	6 10 6 3 5	0 2 11 0 0

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	11 Unknown.	1 17 Married	5 Widowed.	1.5	2 S67 Married	2 654 Single	. 33 Unknown.	-	1 479 Married	64 Widowed.	18 Unknown. J	3 747 Total	1	1 200 Single }		-
24 Widowed.  31 Unknown.  147 Total  54 Married  64 Single	11 Unknown. J	2 1 I7 Married	2 Widowed.	5	74 2 867 Married	2 654 Single	118 Widowed.	60 2 825 Total	37 1 479 Married	5 64 Widowed.	18 Unknown.	61 3 747 Total ]	37 1 388 Married	16 1 200 Single	54 Widowed.	15 Unknown. j
2 5 . 31 Unknown. ] 9 9 1 147 Total	11 Unknown.	2 1 I7 Married	2 Widowed.	133 121 5 1.5	2 S67 Married	2 654 Single	. 33 Unknown.	74 60 2 825 Total	46 37 1 479 Married	6 5 64 Widowed.	18 Unknown. J	59 61 3 747 Total ]	29 37 1 388 Married	25 16 1 290 Single	54 Widowed.	15 Unknown. j
24 Widowed.  31 Unknown.  147 Total  54 Married  64 Single	11 Unknown. J	2 1 I7 Married	2 Widowed.	126 133 121 5 1.5	72 75 74 2 867 Married	47 44 32 2 554 Single	. 33 Unknown.	73 74 60 2 825 Total	44 46 37 1 479 Married	8 6 5 64 Widowed.	1 3 2 18 Unknown.	53 59 61 3 747 Total]	28 29 37 1 388 Married	22 25 16 1 290 Single	3 4 7 1 54 Widowed.	15 Unknown. j
2 5 . 31 Unknown. ] 9 9 1 147 Total	2 11 Unknown.	2 1 IT Married	1 5 Widowed.	143 126 133 121 5 1.5	74 2 867 Married	2 654 Single	. 33 Unknown.	74 60 2 825 Total	53 44 46 37 1 479 Married	5 8 6 5 64 Widowed.	18 Unknown. J	53 53 59 61 3 747 Total	23 28 29 37 1 388 Married	25 16 1 290 Single	54 Widowed.	15 Unknown. j
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TABLE XXVIII.—Continued.—Deaths from Consumption, 1882.

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TABLE XXVIII.—Continued.—Deaths from Consumption, 1882.

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TABLE XXVIII.—Continued.—Deaths from Consumption, 1882.

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-Deaths
-CONTINUED
XXVIII
TABLE XXVIII

ODS OF YEARS, 1882.	35 to 40.   40 to 45.   40 to 56.   50 to 55.   50 to 66.   65 to 70.   75 to 80.   75 to 80.   75 to 80.	63 46 35 42 37 32 28 21 15 10 10	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1		1 1 1 1 1		1	1	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	4 5 1 3 6 1 3 3 1	4 5 1 2 4 8 2 1	1 1 1 1 1 1	1 2 1		1 2 1 1 1		
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	COMPUTION.		Married	Single	Married	Total	Married	Single	Married	o Single	Total	Married	Single	Widowed.	14 Total	Married	Single	Widowed.	single	7 Total	15 Married	Wichamed
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[ ] Married	-:	173 Total	106 Married	Single	- 27 Widowed -	16 Unknown.	1 802 Total )	1 281 Married	<u>-</u>	1 Unknown.	.;	<u></u> -	<u>-</u>	÷	<u>~</u>	<del>-</del>	Married	- 2 Single	Single	<del>-</del>	4 Total	Single	- 1 Widowed.	-:	<del>-</del>	:	Single
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TABLE XXVIII.—Continued.—Deaths from Consumption, 1882.

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	6 Total	I Married.	5 Single	13 Total	1 Married.	12 Single	1 Single	1 Single	11 Single	14 Total	4 Married	10 Single	1 Widowed .	152 Total	21 Married	126 Single	4 Widowed	1 Unknown.
-	6 Total	I Married.	5 Single	13 Total	1 Married	. 12 Single	1 Single	1 Single	11 Single	14 Total	4 Married	10 Single	. 1 Widowed .	1 152 Total		1 126 Single	4 Widowed.	- 1 Unknown.
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nger, Decedente from continuption show an average age of 53 years for males and 54 years for 20 years for males and 50 20 years in this State in 1882, show an average age of 53 years for males and 50 years in this State in 1882, show an average age of 53 years for males and 50 years. Exhibit Q contains some items of interest concerning the average age at death of decedents in Michigan for a number years. It may be seen that the average age of males for the year 1882 was about 26 years, and the average age of femules a little more than a year younger, All who died aged years for females, females.

EXHIBIT Q.—The Average Age of both Sexes, of each Sex, and the difference between the Sexes, for all Returned as having died from All Causes during the Years from 1874 to 1882,, inclusive, as shown by the Registration Returns; for All Returned as having died from Consumption; for All Aged 20 and over, and for the Native and Foreign-born Inhabitants Returned as having died during the Years 1874 to 1882, inclusive.

	Year	Average	Age in Y	ears and	100ths
	Dec. 31:	Total.	Males.	Fe- males.	Excess of Males.
Deaths as shown by Registration Returns Deaths of Native-born inhabitants as shown by Regis-	1 [	25,33	25.78	24.09	,83
tration Returns		20.26	23.99	20.25	3.74
tration Returns	7071	47.15	47.99	* 46.13	1.86
Deaths from Consumption, by Registration Returns	1874	36.48	39.90	33.44	6.46
All aged 20 and over whose occupations were stated in Registration Returns of Deaths	1	50,77	52.70	48.23	4.47
All who died, aged 20 years and over, as shown by Regis- tration Returns	1	50.89	52.84	48.72	4.12
Deaths as shown by Registration Returns	1 (	25, 32	26.31	24.36	1.95
Deaths of Native-born inhabitants as shown by Regis- tration Returns		20.17	20.73	19.88	.85
Deaths of Foreign-born inhabitants as shown by Registration Returns	1	46.90	48,68	44.49	4.19
Deaths from Consumption, by Registration Returns		35.77	38.19	33.58	4.61
All aged 20 and over whose occupations were stated in	1875			6.00	
Registration Returns of Deaths		51.07	53.29	47.87	5.42
tration Returns		50.65	52.79	48.06	4.73
over, as shown by Registration Returns Deaths of Foreign born inhabitants, aged 20 years and		50.68	53,86	47.61	6.25
over, as shown by Registration Returns	j	50.77	52.37	48.54	3.83
Deaths as shown by Registration Returns	1 [	25.83	26.79	25.04	1.75
tration Returns.  Deaths of Foreign-born inhabitants as shown by Regis-		20.86	21.34	20.60	.74
tration Returns	1	47.33	48.91	46.68	2.25
Deaths from Consumption, by Registration Returns		35.70	40.20	33.40	6.80
All aged 20 and over whose occupations were stated in Registration Returns of Deaths	} 1876	51.93	54.00	49.89	4.11
All who died, aged 20 years and over, as shown by Regis- tration Returns		51.94	53.91	49.88	4.08
Deaths of Native-born inhabitants, aged 20 years and over, as shown by Registration Returns		51.09	54,46	48.92	5.54
Deaths of Foreign-born inhabitants, aged 20 years and over, as shown by Registration Returns.		52.25	53,70	51.96	1.74
	, ,	25.89	26.44	25.44	1.00
Deaths as shown by Registration Returns		1		FALLS	1
tration Returns		20.30	20.22	20.57	30
tration Returns		49.31	50.31	48.00	2.31
Deaths from Consumption, by Registration Returns All aged 20 and over whose occupations were stated in	1877	36.34	39.42	33.94	5.48
Registration Returns of Deaths.  All who died, aged 20 years and over, as shown by Regis-		51.71	53.89	49.55	4.34
tration Returns		51.88	54.03	49.65	4.38
Deaths of Native-born inhabitants, aged 20 years and over, as shown by Registration Returns		51.25	54.13	48.43	5.71
Deaths of Foreign-born inhabitants, aged 20 years and over, as shown by Registration Returns	1	53.01	53.95	51.78	2.17
*hs as shown by Registration Returns	) 1878 (	26.41	26.99	25.99	1.00
is of Native-born inhabitants as shown by Regis-		20.74	21.20	21.10	.10
of Foreign-born inhabitants as shown by Regis-	1 1	1	-	1	

## EXHIBIT Q.—CONTINUED.

- DAITIBIT WON	TAUED.				100
	Year	Average	Age in Y		Iootus
	Ending Dec. 31.	Total.	Males.	Fe- males	Exrem of Mules.
Deaths from Consumption, by Registration Returns All aged 20 and over whose occupations were stated in	1878	36.67	40.95	33.25	7.70
Registration Returns of Deaths.  All who died, aged 20 years and over, as shown by Regis.	[ [ [ ]	52.45	54.21	50.41	3.80
tration Returns	li i	52.40	54 17	50.57	3.60
Deaths of Native-born inhabitants, aged 20 years and over, as shown by Registration Returns.		51.01	54 20	49.57	4.63
Deaths of Foreign-born inhabitants, aged 20 years and over, as shown by Registration Returns		53.84	54.88	53.15	1.73
Deaths as shown by Registration Returns	h r	25.76	26.31	25.28	1.03
Deaths of Native born inhabitants as shown by Regis- tration Returns		20.07	19.94	20.32	86
tration Returns		49.55	49.21	47.17	2.04
Deaths from Consumption, by Registration Returns		35.99	39.30	33.12	6.18
All aged 20 and over whose occupations were stated in Registration Returns of Deaths	1879	52.29	54.78	49.42	5.31
All who died, aged 20 years and over, as shown by Registration Returns		52.46	54.67	50.05	4.69
Deaths of Native-born inhabitants, aged 20 years and over, as shown by Registration Returns		51.24	54.19	48.43	5.76
Deaths of Foreign-born inhabitants, aged 20 years and over, as shown by Registration Returns	} {	54 23	52.76	52.86	10
Deaths as shown by Registration Returns	1	25.45	26.06	24.88	1.16
Deaths of Native born inhabitants as shown by Registration Returns	i	19.74	19.73	19.89	16
Deaths of Foreign born inhabitants as shown by Registration Returns		47.72	48.93	45.04	3.89
Deaths from Consumption, by Registration Returns	11 i	35.16	38.09	32.67	5.49
All aged 20 and over whose occupations were stated in Registration Returns of Deaths	1880	52.40	53.59	50.50	3.06
Ali who died, aged 20 years and over, as shown by Registration Returns		52.50	54.23	50.52	3.71
Deaths of Native-born inhabitants, aged 20 years and	li !	51.54	53.84	49.20	4.64
over, as shown by Registration Returns Deaths of Foreign-born inhabitants, aged 20 years and over, as shown by Registration Returns		54.13	55.05	51.60	3.4
Deaths as shown by Registration Returns	l ;	24,08	24.55	23.70	.84
Deaths of Native-born inhabitants as shown by Registration Returns	II I	18.86	18.74	19.14	40
Deaths of Foreign-born inhabitants as shown by Registration Returns	li i	45.43	46.03	44.66	1.3
Deaths from Consumption, by Registration Returns	li i	35.88	37.04	33.93	3.1
All aged 20 and over whose occupations were stated in Registration Returns of Deaths.	1881	51.61	53.12	49.90	3.25
All who died, aged 20 years and over, as shown by Registration Returns		51.35	52.60	49.90	2.70
Deaths of Native born inhabitants, aged 20 years and over, as shown by Registration Returns		50.37	52.38	48.31	4.07
Deaths of Foreign-born inhabitants, aged 20 years and over, as shown by Registration Returns		52.76	52.80	52 74	1
•	,				.0
Deaths as shown by Registration Returns.  Deaths of Native-born inhabitants as shown by Registration Patrons		25.74	26.46	25.07	1.89
tration Returns.  Deaths of Foreign born inhabitants as shown by Registration Potential		20.16	20.33	20.12	.21
tration Returns		46.51	47.58	45.84	1.74
Deaths from Consumption, by Registration Returns	1882	36.43	39.16	34.22	4.94
Registration Returns of Deaths.  All who died, aged 20 years and over, as shown by Regis-		52.24	53.56	50.78	2.7
tration Returns.  Deaths of Native-born inhabitants, aged 20 years and		52.22	53.51	50.74	2.77
over, as shown by Registration Returns.  Deaths of Foreign born inhabitants, aged 20 years and		51.49	53.71	49.19	4.55
over, as shown by Registration Returns	1)	53.42	54.12	53.37	.78

Table XXIX. shows the occupations, so far as stated, of those who died in 1882. None are included under twenty years of age. They are arranged under several classes, by way of comparison, so as to throw some light upon the healthfulness of different pursuits. If the numbers and average age of the living among these various classes were known, it would add greatly to the value of these statistics.

According to the evidence here given, among cultivators of the earth the average age at death was 59.58 years. Next in order comes unemployed with an average age of 56.46 years, and the shortest-lived were those classed as seafaring men, whose average age was only 39.26 years. The particular occupations of those included in each class may be seen by reference to the table.

TABLE XXIX.—Exhibiting, for Decedents Aged 20 Years and Over, in 1882, by Classified Occupations, the Number and the Aggregate and Average Ages of All returned, and of All whose Occupations and Ages were returned, and of All whose Occupations were not Specified, One-half of a Year added to Age of each Person in place of Months and Days excluded.

CLASS.	OCCUPATIONS,—1882.	Number of	AGE IN YEARS AND HUNDRYDTHS OF A YEAR.	
		Persons.	Aggregate.	Average.
	ALL AGED 20 YEARS AND OVER	7,226	377,698.00	52.27
	ALL SPECIFIED OCCUPATIONS,—AGED 20 YEARS AND OVER.	6,994	365,390.00	52,24
	OCCUPATIONS UNSPECIFIED,—AGED 20 YEARS AND OVER	232	12,308.00	53,05
I.	CULTIVATORS OF THE EARTH	1,675	99,802.50	59.58
II.	ACTIVE MECHANICS ABROAD	164	9,007 00	54.99
III.	ACTIVE MECHANICS IN SHOPS	253	12,692.00	50.17
IV.	INACTIVE MECHANICS IN SHOPS	183	7,389.50	55.50
v.	Laborers,—No Special Trades	759	33,506.50	44.15
VI.	AGENTS, LABORERS ABROAD, ETC	106	4,643.50	43.81
VII.	SEAFARING MEN	33	1,295.50	39.26
VIII.	SOLDIERS	4	207.00	51.75
IX.	BUSINESS MEN	295	14,396,50	43.80
X.	PROFESSIONAL MEN	132	7,061.00	53.49
XI.	UNEMPLOYED	123	6,944.50	56.46
XII.	FEMALES	3,817	168,444.50	50.78
I.	CULTIVATORS OF THE EARTH	1,675	99,802.50	59.58
	Farmers	1,664	99,164.00	59.59
	Farm Laborers	4	131.00	32.70
	Gardeners	7	507.50	72.50
11.	ACTIVE MECHANICS ABROAD	164	9,007.00	54.99
	Brick-layers	1	38.50	38.50
	Bridge Builders	1	56.50	56,50

TABLE XXIX.—CONTINUED.—Occupations of Decedents in 1882.

CLASS.	OCCUPATIONS,—1882.	Number of	AGE 13 YE HUNDRS A YE	DTHS OF	
		Persons.	Aggregate.	Average	
II.	ACTIVE MECHANICS ABROAD.—(Continued.)				
	Carpenters	110	6,241.00	56.7	
	Joiners	1	73.50	73.5	
	Masons	27	1,384.50	51.2	
	Painters	20	956.00	47.8	
	Ship Carpenters	4	257.00	64.2	
III.	ACTIVE MECHANICS IN SHOPS	253	12,692.00	50.1	
	Bakers	7	326.50	46.6	
	Basket-makors	2	132.00	66.0	
	Blacksmiths	48	2,670.00	55.6	
	Book-binders	1	44.50	44.5	
	Box-makers	1	23.50	23.5	
	Brewers	7	358.50	51.2	
	Brick-makers	1	65.50	65.5	
	Cabinet-makers	10	477.00	47.7	
	Carriage Trimmers	1	64.50	64.5	
	Cooks	2	95.00	47.5	
	Coopers	16	876.00	54.7	
	Coppersmiths	1	75.50	75.5	
	Distillers	1	64.50	64.5	
	Dyers	1	23.50	28.5	
	Engineers	22	846.00	38.4	
	Finishers	1	33 50	33.5	
	Fountain-makers	1	55.50	55.5	
	Lath Makers	1	23.50	23.5	
	Locksmiths	1	27.50	27.5	
	Machinists	16	652.00	40.7	
	Marble-cutters	5	202.50	40.5	
	Mechanics	22	1,089,00	49.5	
	Millers	18	745.50	57.3	
	Millwrights	7	439.50	62.7	
	Molders	16	644.00	40.2	
	Paper-makers	1	41.50	41.5	
	Patent-makers	1	54.50	54.5	
	Plasterers	3	190.50	63.56	
	Plumbers	2	80.00	40.0	
	Potters	1	75.50	75.80	

### TABLE XXIX.——CONTINUED.—Occupations of Decedents in 1882.

CLASS.	OUCUPATIONS, -1882.	Number of	AGE IN YE HUNDREI A YE	DTH8 OF	
		Persons.	Aggregate.	Average.	
111.	ACTIVE MECHANICS IN SHOPS—(Continued.)				
	Pressmen	2	56.00	28.00	
	Scale Builders	1	40.50	40.50	
	Smelters	1	38.50	38.50	
	Spring-makers	1	23.50	23.50	
	Tanners	4	181.00	45.25	
	Tinkers	2	171.00	85.50	
	Tinners	8	371.00	46.38	
	Trupk-makers	1	62.50	62.50	
	Turners	2	56.00	28.00	
	Wagon-makers	13	774.50	59.58	
	Weavers	6	421.00	70.17	
	17 016 016	ľ	1210	10.11	
IV.	INACTIVE MECHANICS IN SHOPS	133	7,389.50	55.56	
	Barbers	12	571.00	47.58	
	Cigar-makers	9	416.50	46.28	
	Harness-makers	10	494.00	49.40	
	Jewelers	8	425.00	53.13	
	Painters	20	956.00	47.80	
	Printers	4	106.00	26.50	
	Shirt-makers	1	41.50	41.50	
	Shoemakers	35	2,410.50	68.8	
	Tailors	27	1,594.50	59.00	
	Telegraphers	4	141.00	35.2	
	Watch-makers	3	233.50	77.8	
v.	LABORERS-NO SPECIAL TRADES	759	33,506.50	44.1	
	Boom-hands	1	26.50	26.5	
	Firemen	4	91.00	22.75	
	Grinders	1	22.50	22.50	
	House-keepers	2	113.00	56.50	
	Janitors	5	308.50	61.70	
	Laborers	631	28,400.50	45.0	
	Mill-hands	4	139.00	34.7	
	Miners	85	3,365,50	39.5	
	Porters	1	32,50	32.5	
	Saw-filers	1	1	24.5	
	Sawyers	6	269.00	44.8	
	1	2	59.00	29.5	
	Scalers	l *	39.00	1 25.0	

TABLE XXIX.—Continued.—Occupations of Decedents in 1882.

CLASS.	OCCUPATIONS,—1882.	Number of	AGE IN YE HUNDR'I A YE	TH: OF
	,	Persons.	Aggregate.	Averag
v.	LABORERS-NO SPECIAL TRADES-(Continued.)			
	Scavengers	1	77.50	77.
	Shingle-packers	1	31.50	31.
	Waiters	1	50.50	50.
	Watchmen	3	146.50	48.
	Well Diggers	9	72.00	36
	Woodsmen	8	277.50	34
VI.	AGENTS, LABORERS ABROAD, ETC	106	4,643.50	43
	Agents	4	197.00	49
	Baggage Masters	2	94.00	47
	Brakemen	10	266.00	26
	Butchers	10	342.00	34
	Car Inspectors	1	64.50	64
	Coachmen	1	30.50	30
	Commercial Agents	5	161.50	39
	Conductors	1	39.50	39
	Constables	2	115.00	57
	Dep. Revenue Collectors	1	36.50	36
	Dep. Sheriffs	1	49.50	49
	Draymen	4	279.00	68
	Drovers	1	50.50	50
	Foremen	7	316 00	48
	Freight Agents	9	61.00	30
	Horse Dealers	1	20.50	20
	House Movers	2	111.00	50
	Hucksters.	2	108.00	54
	Hunters	2	111.00	55
		5	238.50	47
	Peddler4	3	116.50	38
	Policemen	_	407.50	37
	Railroaders	11	128.00	
	Railroad Laborers	_		64
	Samplers	1	31 50	31
	Stage Drivers	1	22.50	22
	Switchmen	1	27.50	27
	Termsters	18	939.00	52
	Threshers	2	82.00	41
	Ticket Agents	1	42,50	42

### CAUSES OF DEATH, - OCCUPATIONS.

TABLE XXIX.—Continued.—Occupations of Decedents in 1882.

	AGENTS, LABORERS ABROAD, ETC.—(Continued.) Ticket Inspectors	Persons,	Aggregate. 81.50 72.50	Average_
	Ticket Inspectors  Weigh Masters  SEAFARING MEN	l .	ł	81.50
VII.	Weigh Masters	l .	ł	81.50
VII.	SEAFARING MEN	1	79 50	
VII.			1	72.50
	Fishermen	33	1,295.50	30.20
		7	262,50	37.50
	Lake Captains	1	70.50	70.50
	Raftsmen	1	21.50	21.50
	Sailors	22	861.00	39.14
	Sea Captains.	2	80.00	. 40.00
VIII.	SOLDIERS	4	207.00	51.75
[	Military Officers.	1	74.50	74.50
	Soldiers	3	132.50	44.17
IX.	Business Mrn	295	14,396.50	48.80
	Accountants	1	22.50	22.50
- 1	Bankers	5	282.50	56.50
	Bank Tellers	1	23.50	23.50
1	Book-keepers.	15	512.50	84,17
i	Capitalists.	2	150.00	75.00
1	Clerks	37	1,319.50	35.66
	Commission Merchants	1	67.50	67.50
	Confectioners	1	55.50	55,50
İ	Contractors	3	162.50	54.17
	Coroners	1	79.50	79.50
į	Druggists	5	224.50	44.90
l	Electric-light men	1	22.50	22.50
	Express Agents	1	52.50	52.50
	Furniture Dealers	2	83.00	41.50
	Grocers	9	404.50	44.94
ĺ	Hatters	1	77.50	77.50
i	Hotel keepers	23	1,186.50	51.50
	Ice Dealers	1	55.50	55.50
	Indian Agents	1	69.50	69.50
	Insurance Agents	2	133.00	66.50
	Jobbers	4	255.00	63.78
	Justices of the Peace.	2	100.00	50.00
	Land Agents	3	156.50	50.00 52.17

TABLE XXIX.—Continued.—Occupations of Decedents in 1882.

CLASS.	OCCUPATIONS,—1882.	Number of	Age in Yi Hundrei a Ye	DTHS OF	
		Persons,	Aggregate.	Average.	
IX.	BUSINESS MEN—(Continued.)				
	Livery-keepers	3	182.50	60.83	
	Lumber Inspectors	1	79,50	79.50	
·	Lumbermen	29	1,363.50	47.09	
	Manufacturers	3	125.50	41.83	
	Merchants	80	4,409.50	55.11	
	News Agents	2	75.00	87.50	
	Nursery Men	1	70,50	70,50	
	Ponsion Agents	1	58.50	58.50	
	Photographers	2	69.00	34.50	
	Politicians	1	64.50	64.50	
	Postmasters	8	209.50	69.83	
	Public Officers	1	69.50	69.50	
	Restaurant Keepers	2	95.00	47.50	
	Salesmen	3	118.50	j 39.50	
	Saloonists	36	1,649.00	45.81	
	Speculators	2	124.00	62.00	
•	Tobacco Merchants	1	64.50	64,50	
	Wholesale Liquor Dealers	1	49.50	49.50	
	Wood Dealers	1	80.50	30.50	
X.	PROFESSIONAL MEN	182	7,061.00	53.49	
	Actors	1	26.50	26.50	
	Civil Engineers	1	33.50	33.50	
	Dentists	2	75.00	87.50	
	Editors	1	72.50	79.50	
	Explorers	1	68.50	68.50	
	Horse Doctors	3	162.50	5 <b>L</b> .17	
	Lawyers	23	1,859.50	59.11	
	Ministers	26	1,765.00	67.89	
	Musicians	5	193.50	38.70	
	Physicians	36	2,069.00	57.47	
	Students	8	195.00	24.88	
	Surveyors	3	163.50	54.50	
	Toachers	21	831.50	89.60	
	Temperance Lecturers	1	45.50	45.50	
- <b>T.</b>	UNEMPLOYED	123	6,944.50	56,46	
	Paupers	17	963.50	56.68	

## TABLE XXIX.—Continued.—Occupations of Decedents in 1882.

CLASS,	OCCUPATIONS,—1882.	Number	AGE IN YE	DTHS OF	
		Persons.	Aggregate.	Average.	
XI.	UNEMPLOYED-(Continued.)		-		
	Retired	12	887.00	73.92	
	Unemployed	94	5,094.00	54.19	
	Unknown	232	12,308.00	53,05	
XII.	FEMALES	3,317	168,444.50	50.78	
	Actresses	1	25.50	25,50	
	Artists	1	56.50	56.50	
	Bare-back riders	1	31.50	31.50	
	"Bleachery"	1	41.50	41.50	
	Boarding-house Keepers	2	66.00	33.00	
	Captains' Wives	1	40.50	40.50	
	Carpet Weavers.	2	106.00	53.00	
	Cheese Makers	1	60.50	60.50	
	Clergymen's Wives	2	135.00	67,50	
	Clerks	3	72.50	24.17	
	Confectioners	1	40.50	40,50	
	Cooks	2	106.00	53,00	
	Domestics	32	1,250.00	39.07	
	Dressmakers.	24	784.00	32.67	
	Editors	1	40.50	40.50	
	Farmers	156	8,398.00	53,83	
	Farmers' Daughters	15	365.50	24.37	
- 9	Farmers' Wives	100	5,102.00	51.00	
	Grocers.	1	35.50	35,50	
	Hair-dressers	4	201,00	50.25	
	Housekeepers	737	41,019.50	55.66	
	Housewives	1,235	59,636.50	48.29	
	Houseworkers	70	3,626.00	51.80	
	Keepers of house of ill-fame	1	28.50	28.50	
	Laborers	13	642.50	49.42	
	Laborers' Wives	3	97.50	32.50	
	Landladies	1	45.50	45.50	
	Laundresses	2	44.00	22,00	
	Matrons	1	24.50	24.50	
	Merchants	2	108.00	54,00	
	3514	2	140.00	20077	
	William	30	1923	70.00	
	attiers	1	33.50	33,50	

## VITAL STATISTICS OF MICHIGAN, 1882.

## TABLE XXIX.—Continued.—Occupations of Decedents in 1882.

CLASS.	OCCUPATIONS,—1882	Number of	AGE IN YEARS AND HUNDREDTHS OF A YEAR.	
		Persons.	Aggregate.	A verage.
XII.	FEMALES-(Continued.)			
	Millers' Wives	1	52.50	52.50
	Milliners	7	321.50	45.93
	Miners' Daughters	3	44.00	22.00
	Paupers	5	272.50	54.50
	Plasterers	1	23.50	23.50
	Prostitutes	1	23.50	23.50
	Retired Housewives	1	76.50	76.50
	Saloon-keepers	1	52 50	52.50
	Seamstresses	12	540.00	45.00
	Servants	31	967.50	31.91
	Shirt-makers	1	21.50	21.50
	Speculators	1	84.50	84.60
	Students	4	89.00	22.25
	Tailoresses	6	331.00	55.17
	Teachers	27	854.50	31.65
	Unemployed	219	11,732.50	53.57
	Unknown	537	28,554.50	53.17
	Washerwomen	1	63.50	63.50
	Weavers	3	220.50	73.50
	Wives	57	1,714.50	46.34

Α,	PAGE.
age, Number of Persons Married at different periods of,	
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